

جامعة الحمدانية

كلية الحاسبات والمعلوماتية

قسم تكنولوجيا المعلومات

المرحلة الاولى

Computer Organization

# What is Operating System?

- The operating system is the most important program that runs on a computer.
- Operating system is an interface between computer and user.
- It is responsible for the management and coordination of activities and the sharing of the resources of the computer.

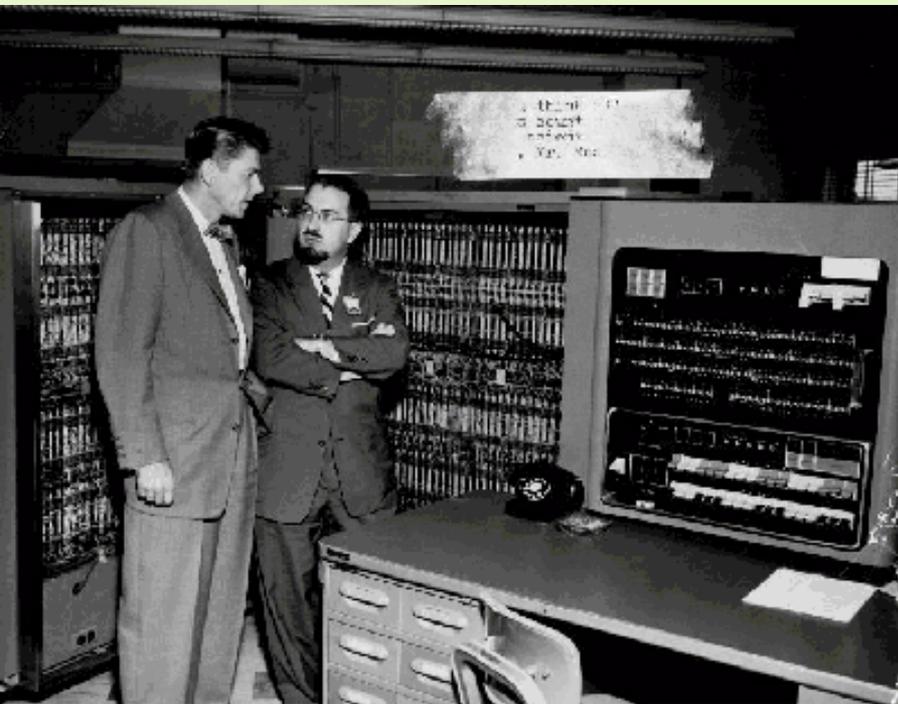
# History Of O.S.



- **The General Motors Research Lab implemented the first OS in the early 1950s for their IBM 701.**
- **In the mid-1960s, operating systems started to use disks.**
- **In the late 1960s, the first version of the Unix OS was developed.**
- **The first OS built by Microsoft was DOS. It was built in 1981**
- **The present-day popular OS Windows first came to existence in 1985 when a GUI was created and paired with MS-DOS.**

# History Of O.S.

**IBM  
701**



**IBM  
709**

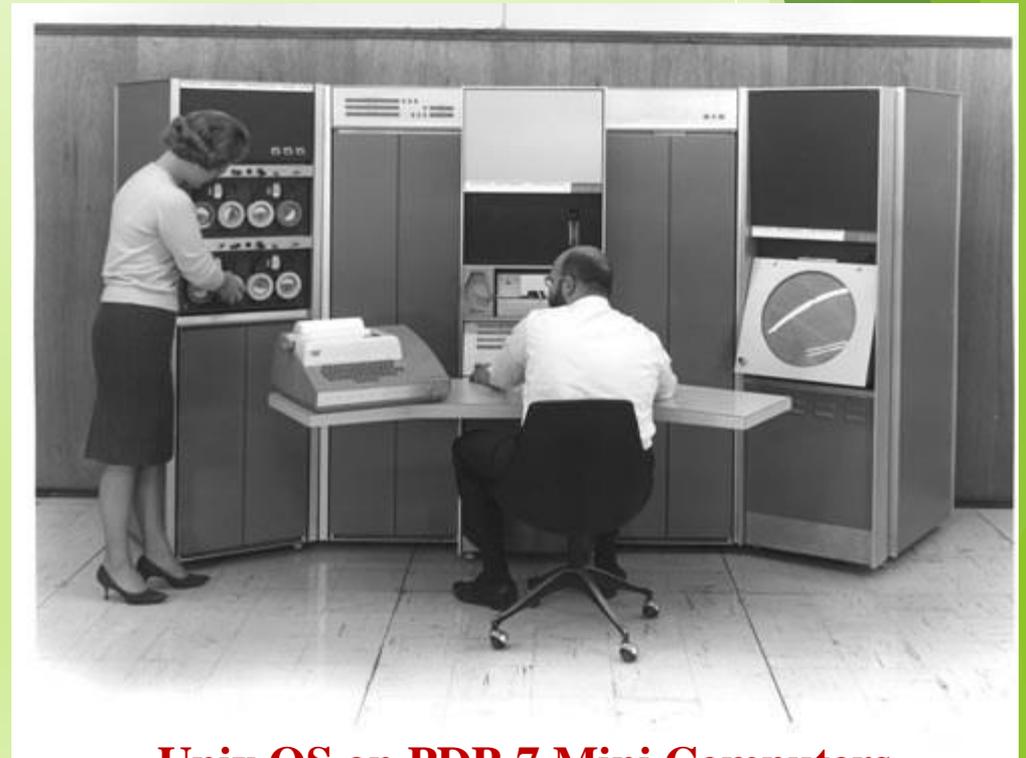


# UNIX

UNIPLEXED  
INFORMATION  
COMPUTING SYSTEM



**PDP-12**



**Unix OS on PDP-7 Mini Computers**

# DOS

DISK  
OPERATING  
SYSTEM

Welcome to FreeDOS

CuteMouse v1.9.1 alpha 1 [FreeDOS]  
Installed at PS/2 port  
C:\>ver

FreeCOM version 0.82 pl 3 XMS\_Swap [Dec 10 2003 06:49:21]

C:\>dir  
Volume in drive C is FREEDOS\_C95  
Volume Serial Number is 0E4F-19EB  
Directory of C:\

FDOS	<DIR>	08-26-84	6:23p
AUTOEXEC	BAT	435	08-26-84 6:24p
BOOTSECT	BIN	512	08-26-84 6:23p
COMMAND	COM	93,963	08-26-84 6:24p
CONFIG	SYS	881	08-26-84 6:24p
FDOSBOOT	BIN	512	08-26-84 6:24p
KERNEL	SYS	45,815	04-17-84 9:19p
6 file(s)		142,838	bytes
1 dir(s)		1,864,517,632	bytes free

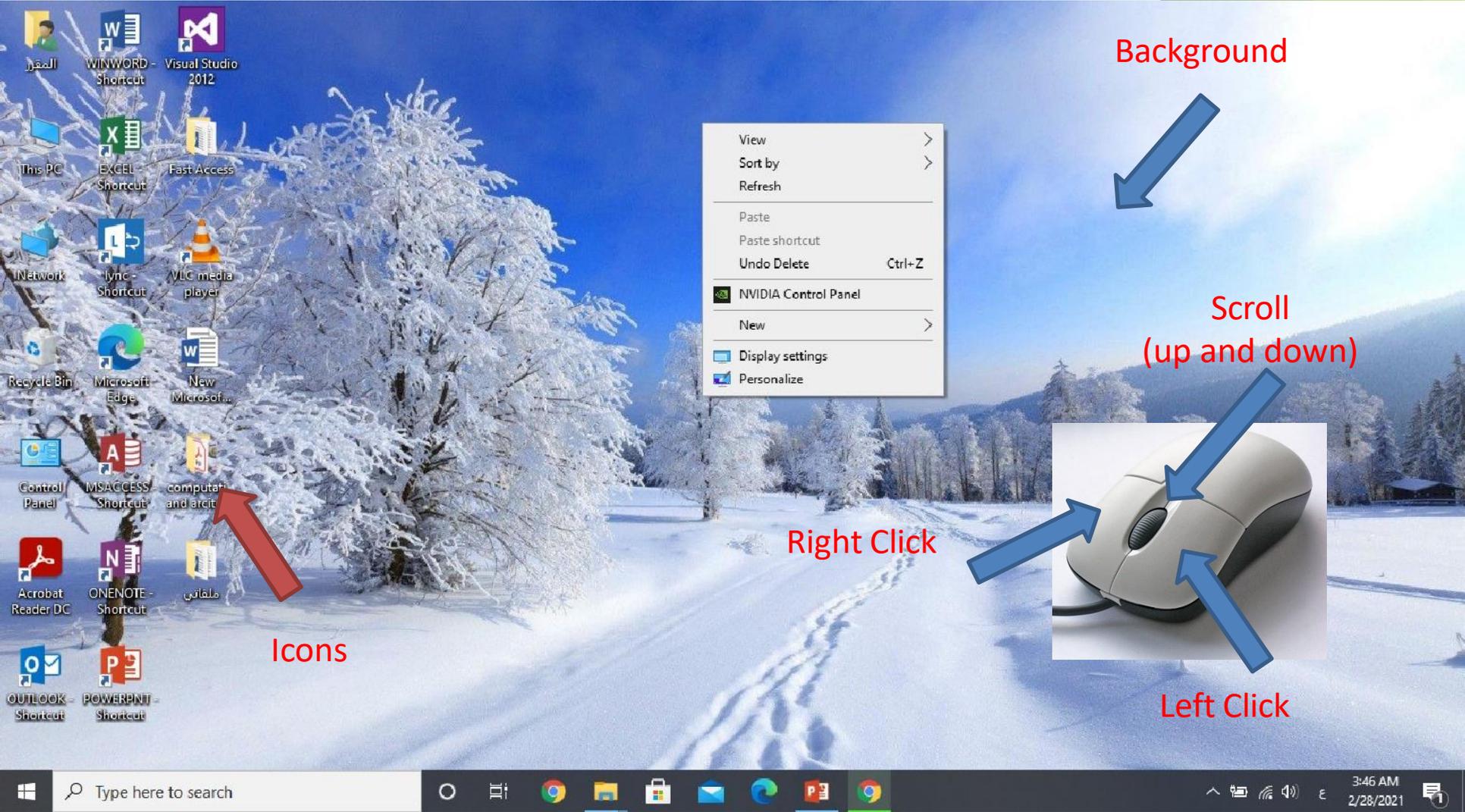
C:\>\_





# Windows

The screenshot displays the Windows 10 Start menu interface. On the left is a vertical list of applications categorized by 'Recently added', 'Expand', and 'A-C'. The main area is a grid of live tiles for various applications and services, including Calendar, Mail, Photos, Office, Microsoft Store, Microsoft Edge, Spotify, Skype, HP JumpStarts, and HP Power Manager. A weather tile for Canberra shows a sunny forecast with a temperature of 27°C. The taskbar at the bottom contains the search bar, task view button, and several pinned application icons. The system tray on the right shows the time as 11:28 AM on 16/01/2020 and the language set to ENG.



Background



Scroll  
(up and down)



Right Click

Left Click

Icons

- View >
- Sort by >
- Refresh

---

- Paste
- Paste shortcut
- Undo Delete Ctrl+Z

---

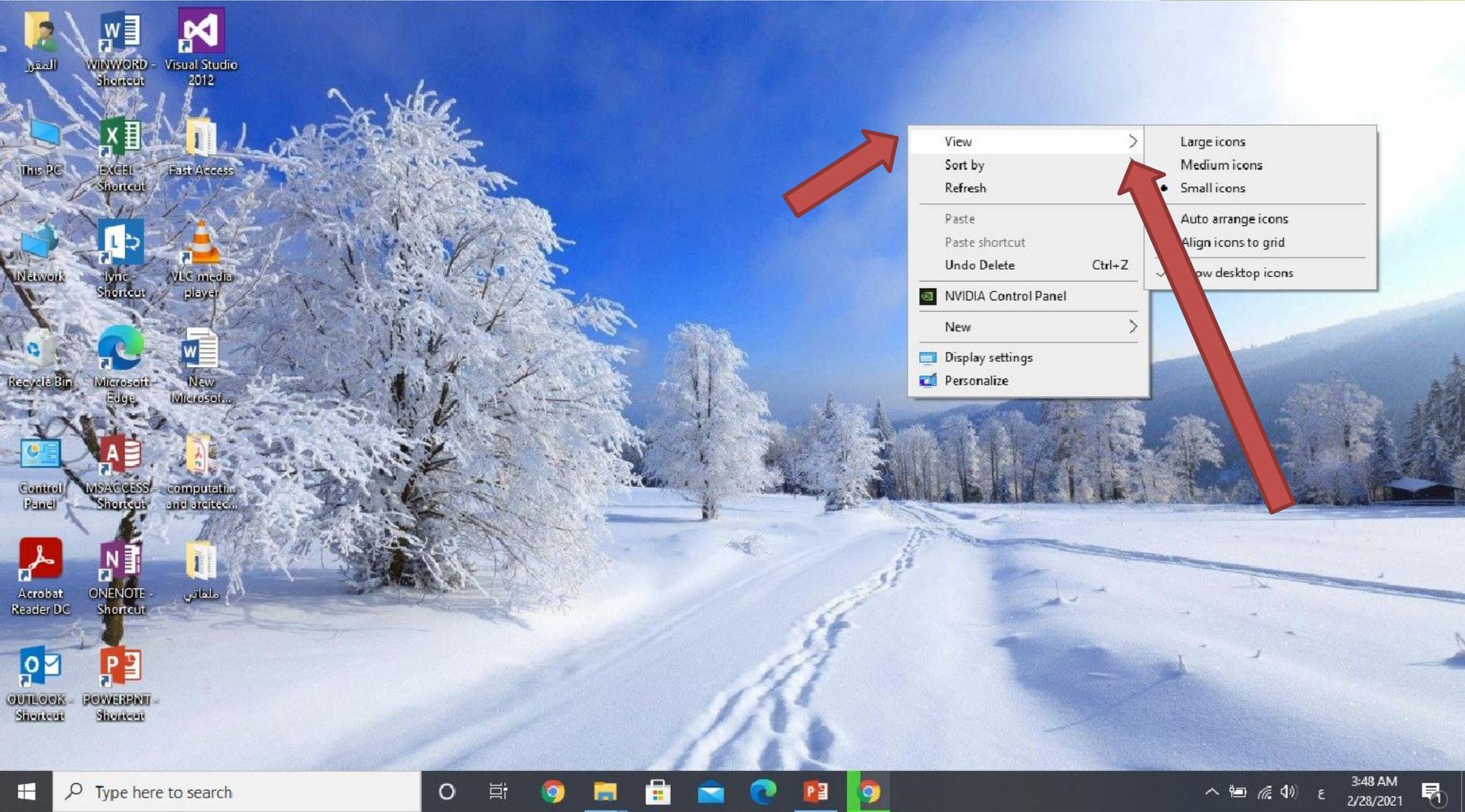
- NVIDIA Control Panel

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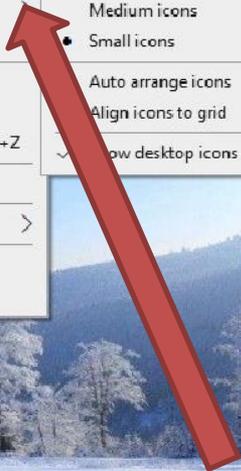
- New >

---

- Display settings
- Personalize

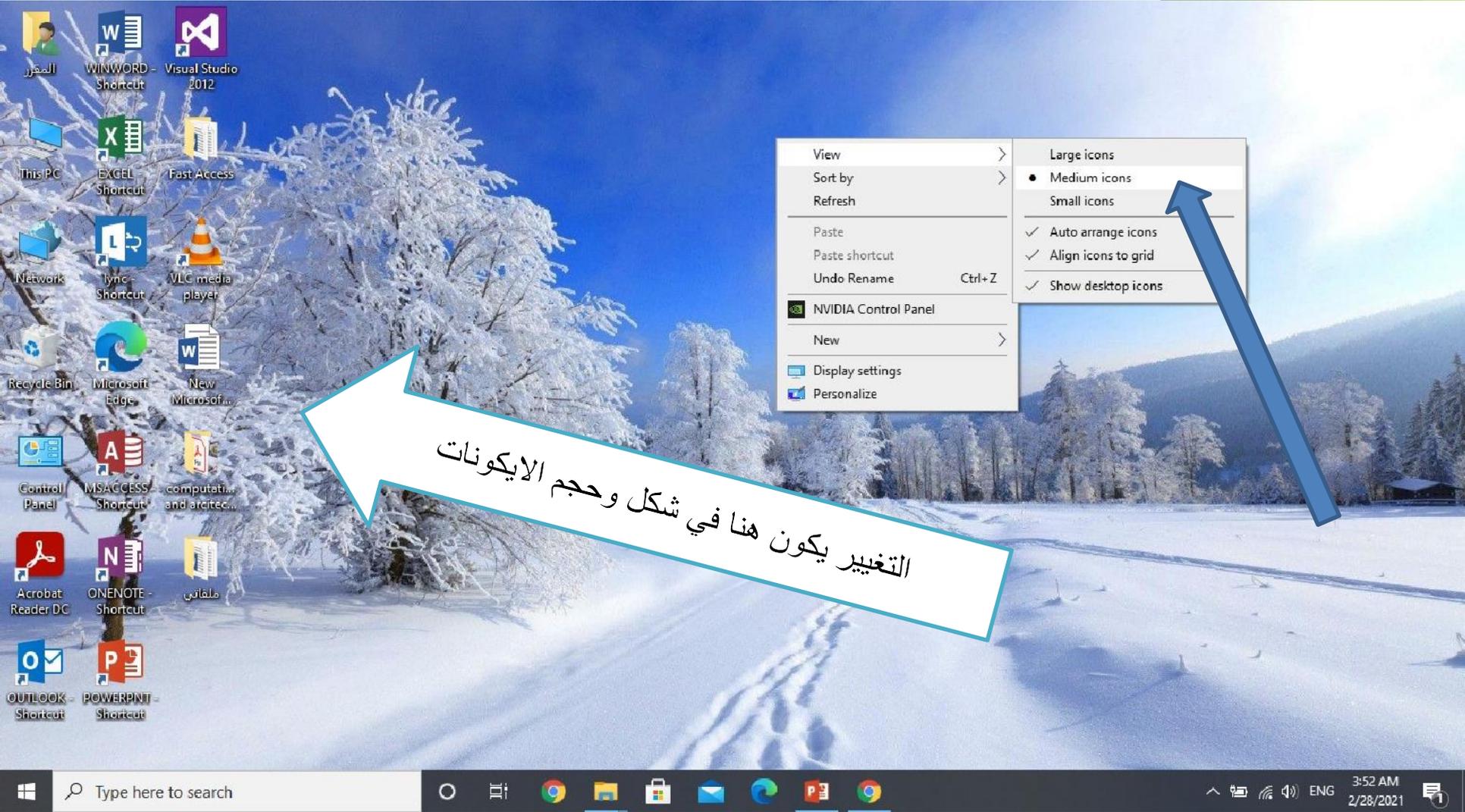


View	>	Large icons
Sort by		Medium icons
Refresh		• Small icons
Paste		Auto arrange icons
Paste shortcut		Align icons to grid
Undo Delete	Ctrl+Z	✓ Show desktop icons
NVIDIA Control Panel		
New >		
Display settings		
Personalize		



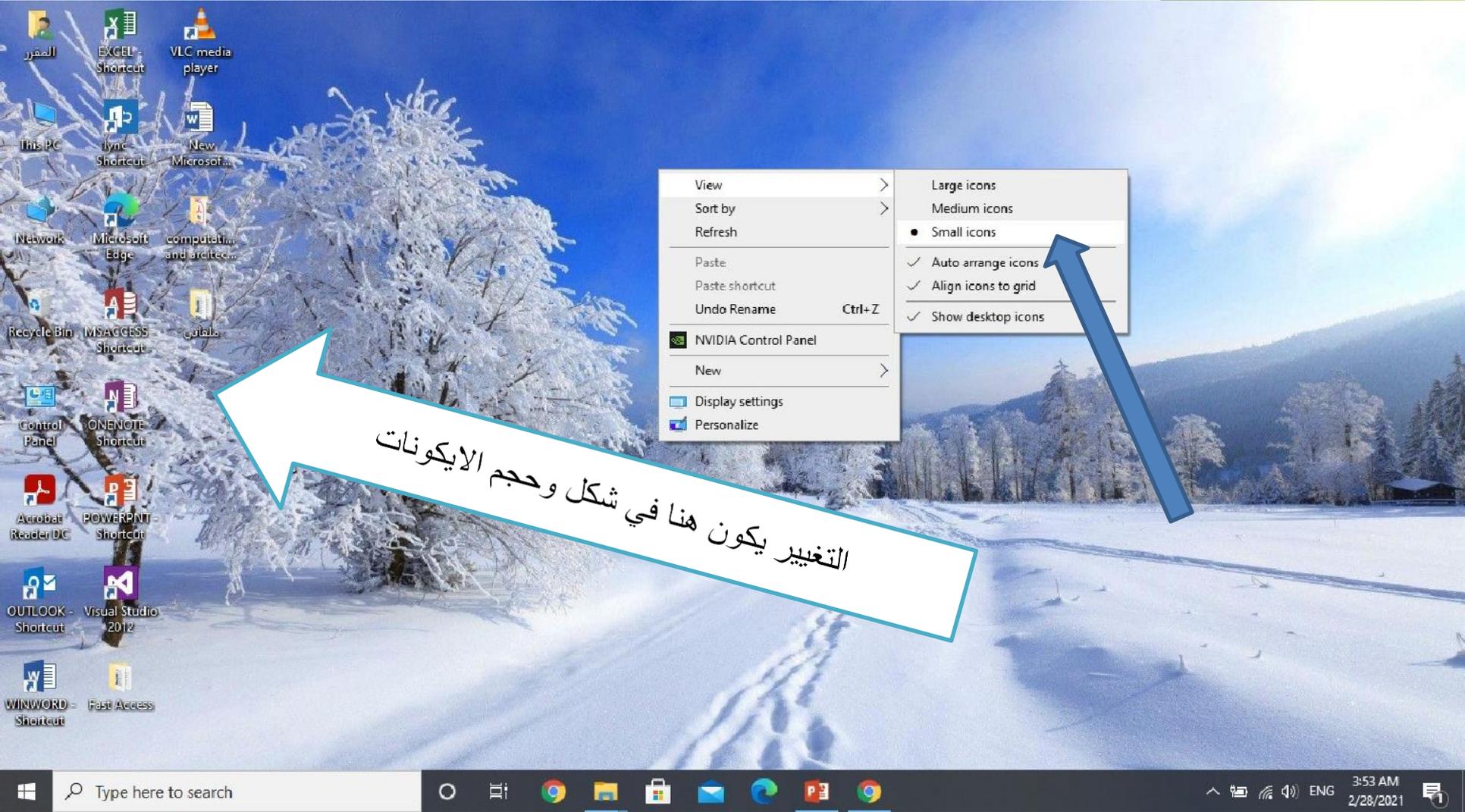


View	>	• Large icons
Sort by	>	Medium icons
Refresh		Small icons
<hr/>		
Paste		<input checked="" type="checkbox"/> Auto arrange icons
Paste shortcut		<input checked="" type="checkbox"/> Align icons to grid
Undo Rename	Ctrl+Z	<input checked="" type="checkbox"/> Show desktop icons
<hr/>		
NVIDIA Control Panel		
<hr/>		
New	>	
<hr/>		
Display settings		
Personalize		



التغيير يكون هنا في شكل وحجم الايكونات

View	>	Large icons
Sort by	>	● Medium icons
Refresh		Small icons
<hr/>		
Paste		✓ Auto arrange icons
Paste shortcut		✓ Align icons to grid
Undo Rename	Ctrl+Z	✓ Show desktop icons
<hr/>		
NVIDIA Control Panel		
<hr/>		
New	>	
<hr/>		
Display settings		
Personalize		



View	>	Large icons
Sort by	>	Medium icons
Refresh		<input checked="" type="radio"/> Small icons
Paste		<input checked="" type="checkbox"/> Auto arrange icons
Paste shortcut		<input checked="" type="checkbox"/> Align icons to grid
Undo Rename	Ctrl+Z	<input checked="" type="checkbox"/> Show desktop icons
NVIDIA Control Panel		
New	>	
Display settings		
Personalize		

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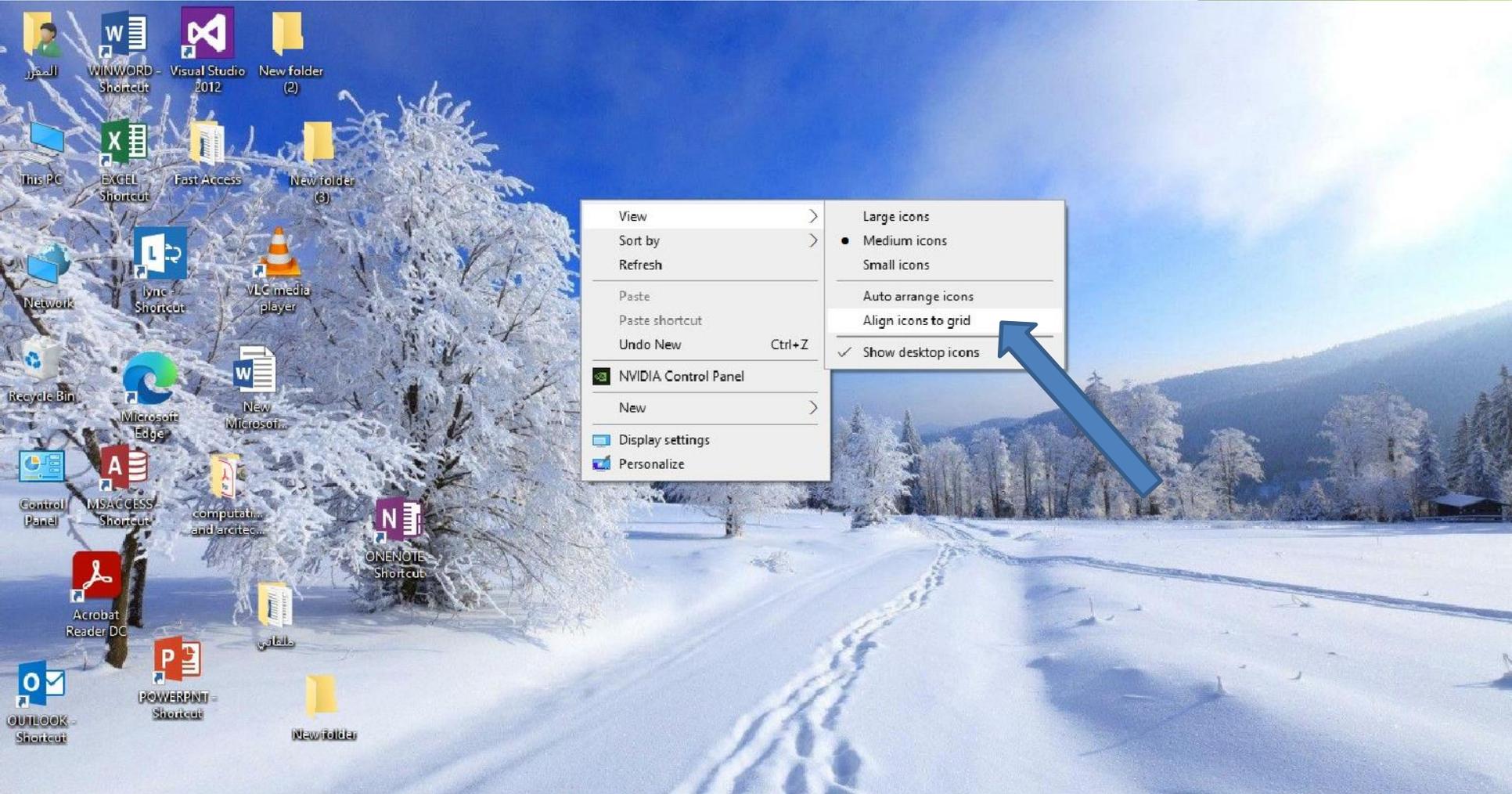
- View >
- Sort by >
- Refresh
- Paste
- Paste shortcut
- Undo New Ctrl+Z
- NVIDIA Control Panel
- New >
- Display settings
- Personalize

- Large icons
- Medium icons
- Small icons
- Auto arrange icons
- Align icons to grid
- Show desktop icons



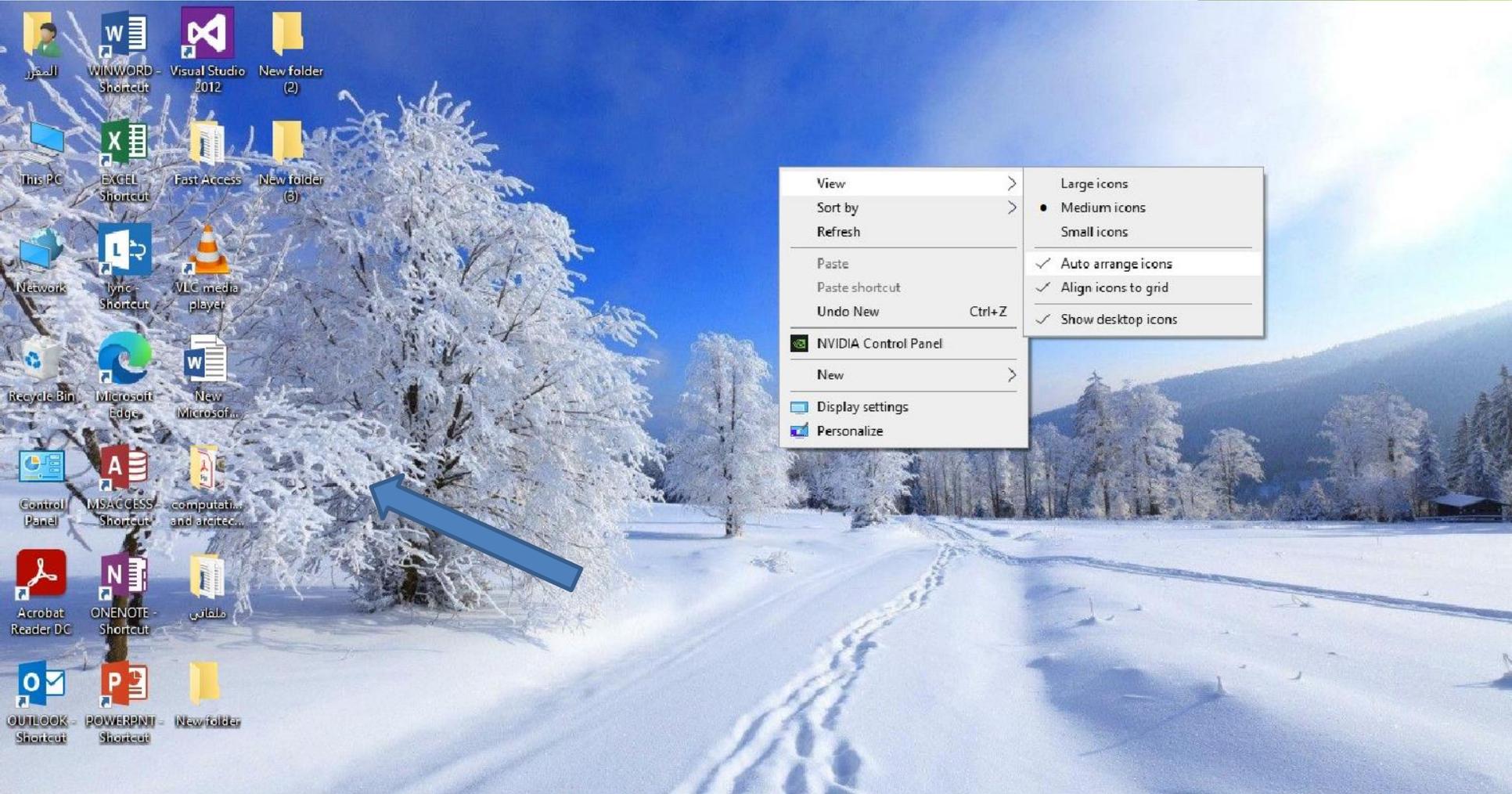


- المقرر
- WINWORD - Shortcut
- Visual Studio 2012
- New folder (2)
- This PC
- EXCEL Shortcut
- Fast Access
- New folder (3)
- Network
- Sync - Shortcut
- VLC media player
- Recycle Bin
- Microsoft Edge
- New Microsoft...
- Control Panel
- MSACCESS - Shortcut
- computati... and arctec...
- ملفات
- Acrobat Reader DC
- ONENOTE - Shortcut
- ملاحظات
- OUTLOOK - Shortcut
- POWERPNT - Shortcut
- New folder

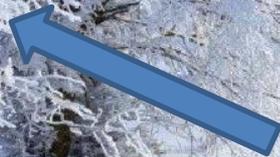


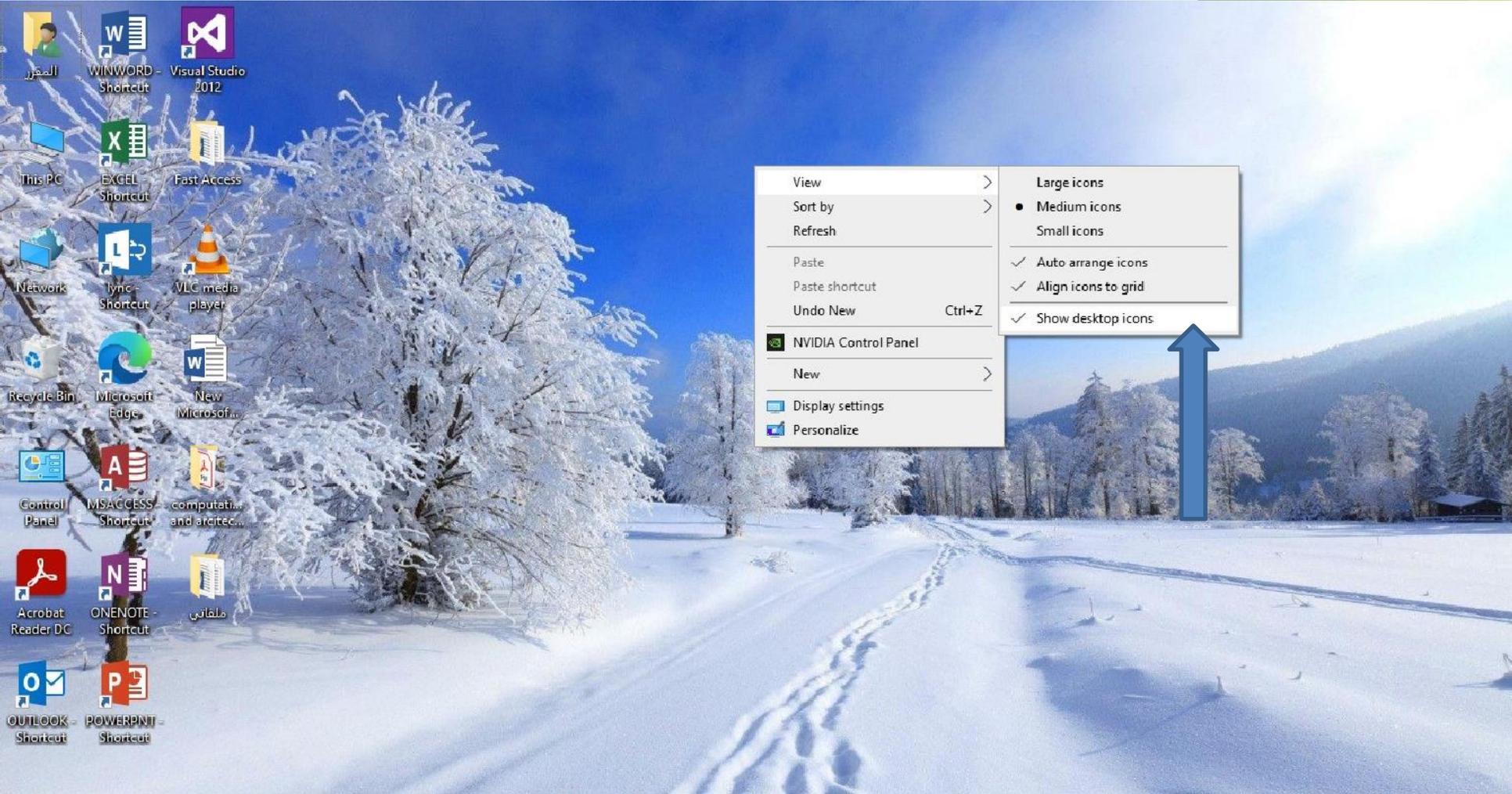
View >	Large icons
Sort by >	● Medium icons
Refresh	Small icons
Paste	Auto arrange icons
Paste shortcut	Align icons to grid
Undo New Ctrl+Z	✓ Show desktop icons
NVIDIA Control Panel	
New >	
Display settings	
Personalize	





View	>	Large icons
Sort by	>	<input checked="" type="radio"/> Medium icons Small icons
Refresh		
Paste		<input checked="" type="checkbox"/> Auto arrange icons
Paste shortcut		<input checked="" type="checkbox"/> Align icons to grid
Undo New	Ctrl+Z	<input checked="" type="checkbox"/> Show desktop icons
<b>NVIDIA Control Panel</b>		
New	>	
Display settings		
Personalize		

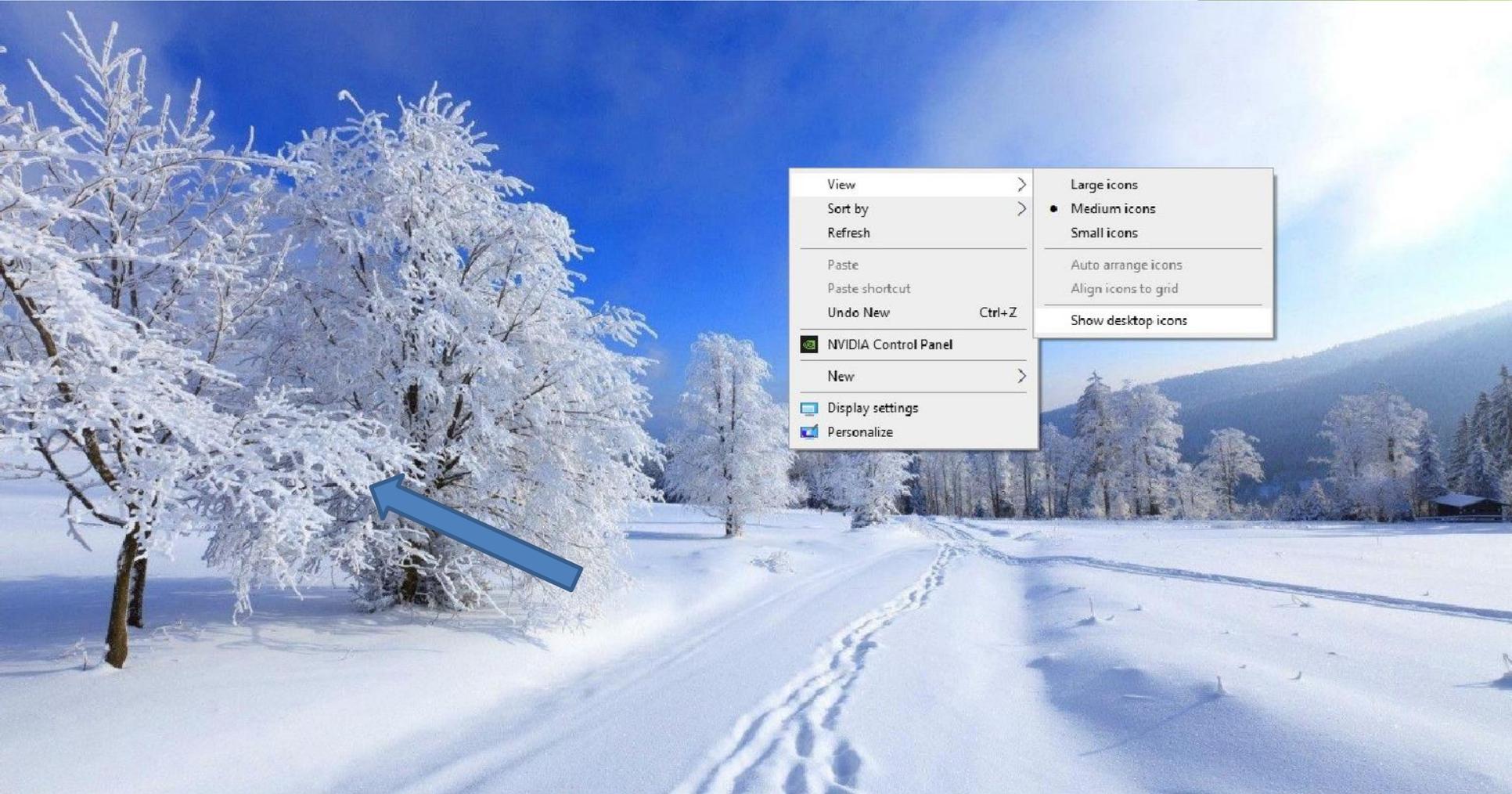




- المقرر
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- MSACCESS - Shortcut
- computati... and archtec...
- Acrobat Reader DC
- ONENOTE - Shortcut
- ملفات
- OUTLOOK - Shortcut
- POWERPNT - Shortcut

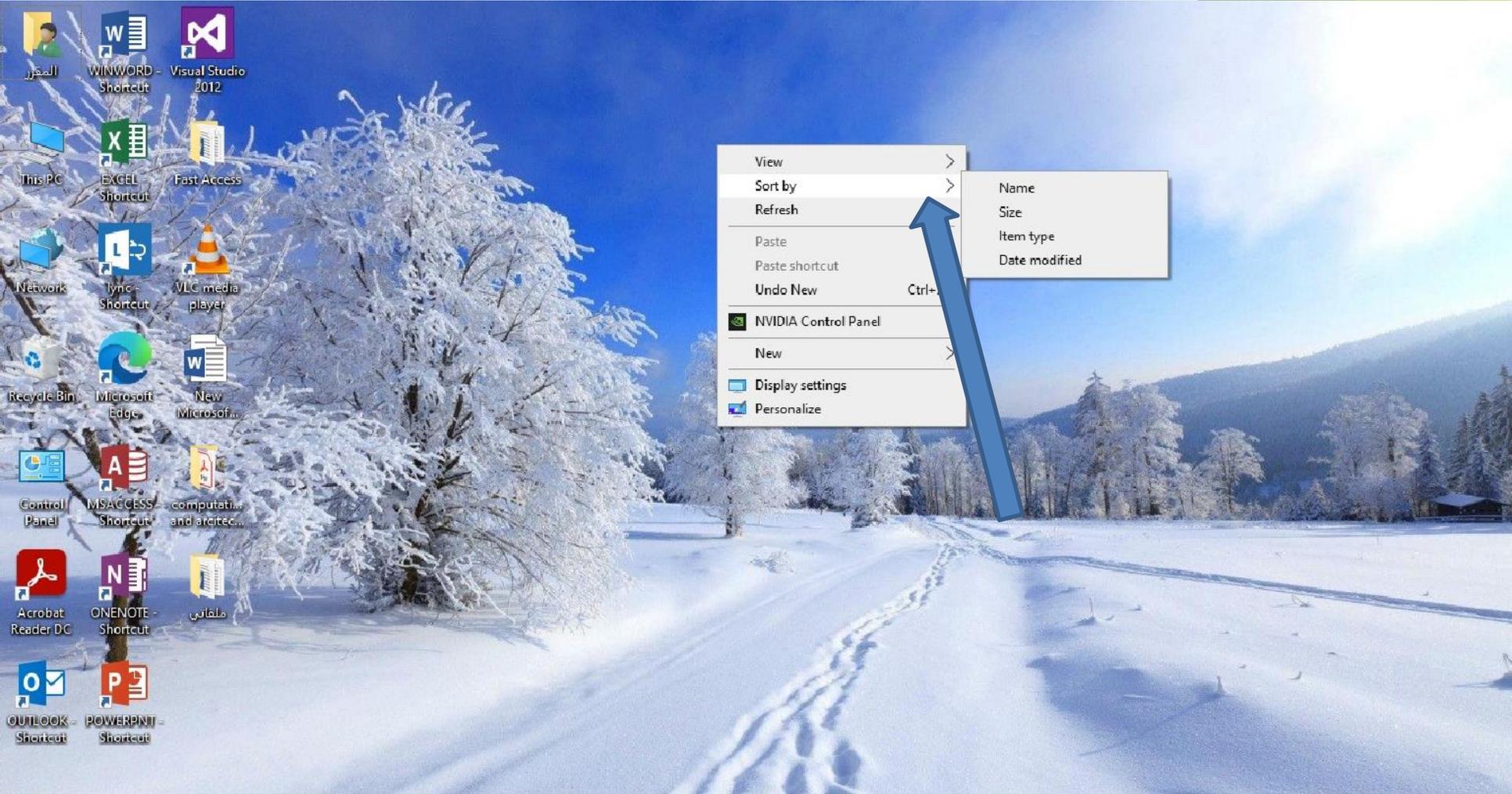
View	>	Large icons
Sort by	>	● Medium icons
Refresh		Small icons
Paste		✓ Auto arrange icons
Paste shortcut		✓ Align icons to grid
Undo New	Ctrl+Z	✓ Show desktop icons
NVIDIA Control Panel		
New	>	
Display settings		
Personalize		





View	>	Large icons
Sort by	>	• Medium icons
Refresh		Small icons
<hr/>		Auto arrange icons
		Align icons to grid
<hr/>		Show desktop icons
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Paste		
Paste shortcut		
Undo New	Ctrl+Z	
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NVIDIA Control Panel		
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New	>	
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Display settings		
Personalize		

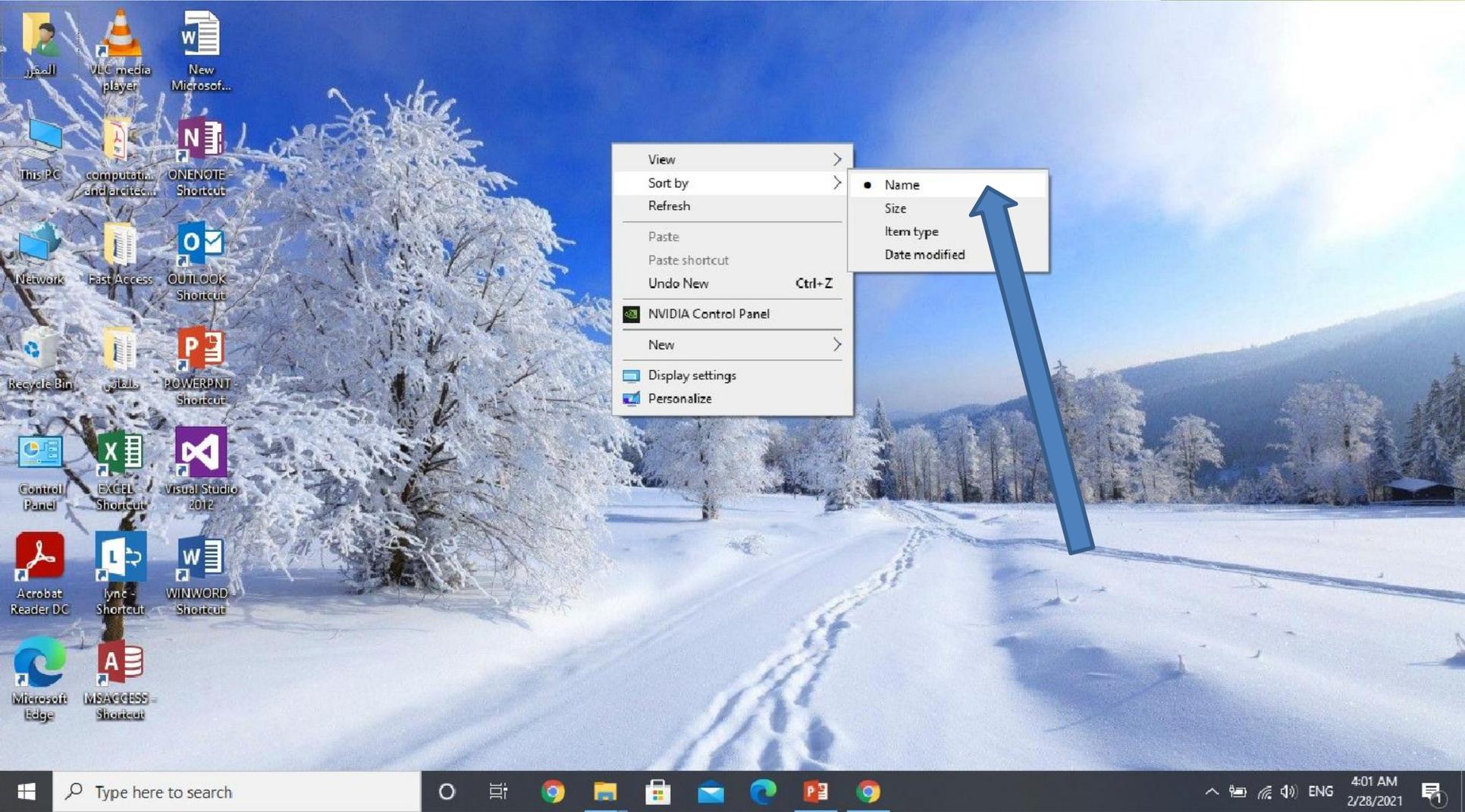




- View >
- Sort by >
- Refresh
- Paste
- Paste shortcut
- Undo New Ctrl+
- NVIDIA Control Panel
- New >
- Display settings
- Personalize

- Name
- Size
- Item type
- Date modified





- View >
- Sort by >
- Refresh
- Paste
- Paste shortcut
- Undo New **Ctrl+Z**
- NVIDIA Control Panel
- New >
- Display settings
- Personalize

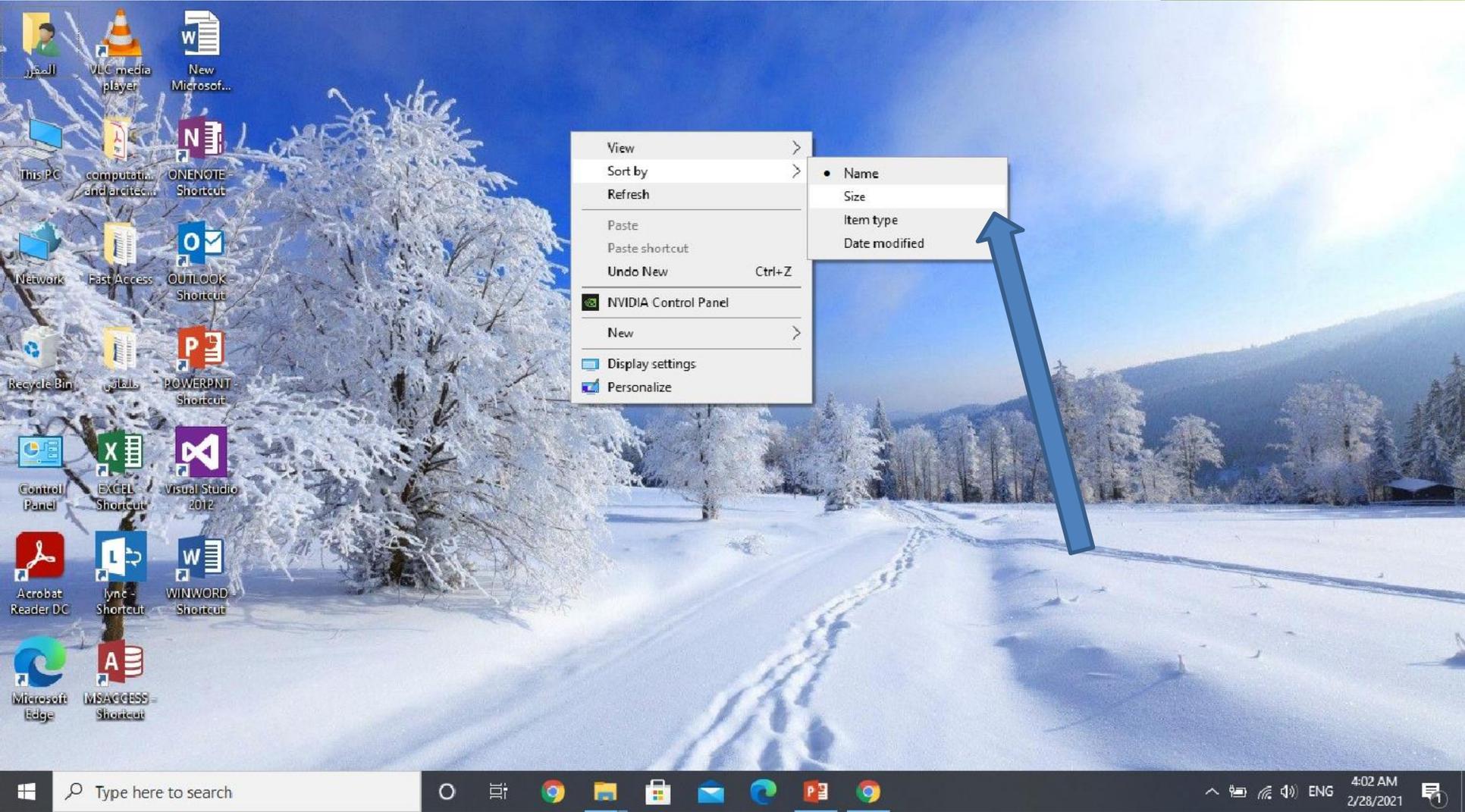
- Name
- Size
- Item type
- Date modified



Type here to search



ENG 4:01 AM 2/28/2021



- View >
- Sort by >
- Refresh
- Paste
- Paste shortcut
- Undo New Ctrl+Z
-  NVIDIA Control Panel
- New >
-  Display settings
-  Personalize

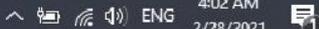
- Name
- Size
- Item type
- Date modified

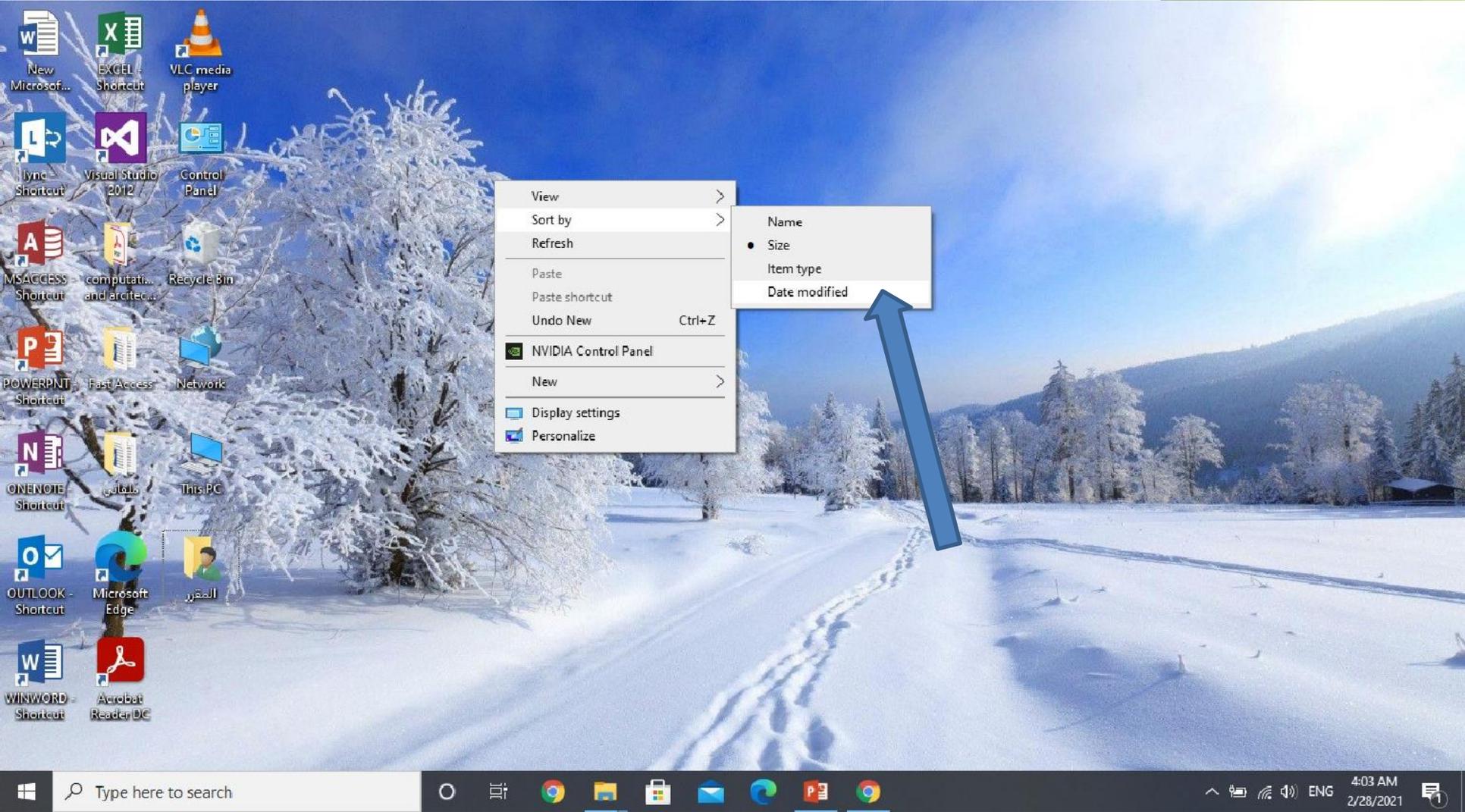


-  المقرر
-  VLC media player
-  New Microsoft...
-  This PC
-  computat... and arcitec...
-  ONENOTE Shortcut
-  Network
-  Fast Access
-  OUTLOOK Shortcut
-  Recycle Bin
-  سلة المهملات
-  POWERPNT Shortcut
-  Control Panel
-  EXCEL Shortcut
-  Visual Studio 2012
-  Acrobat Reader DC
-  Lync - Shortcut
-  WINWORD Shortcut
-  Microsoft Edge
-  MSACCESS Shortcut

Type here to search

- 





- View >
- Sort by >
- Refresh
- Paste
- Paste shortcut
- Undo New Ctrl+Z
- NVIDIA Control Panel
- New >
- Display settings
- Personalize

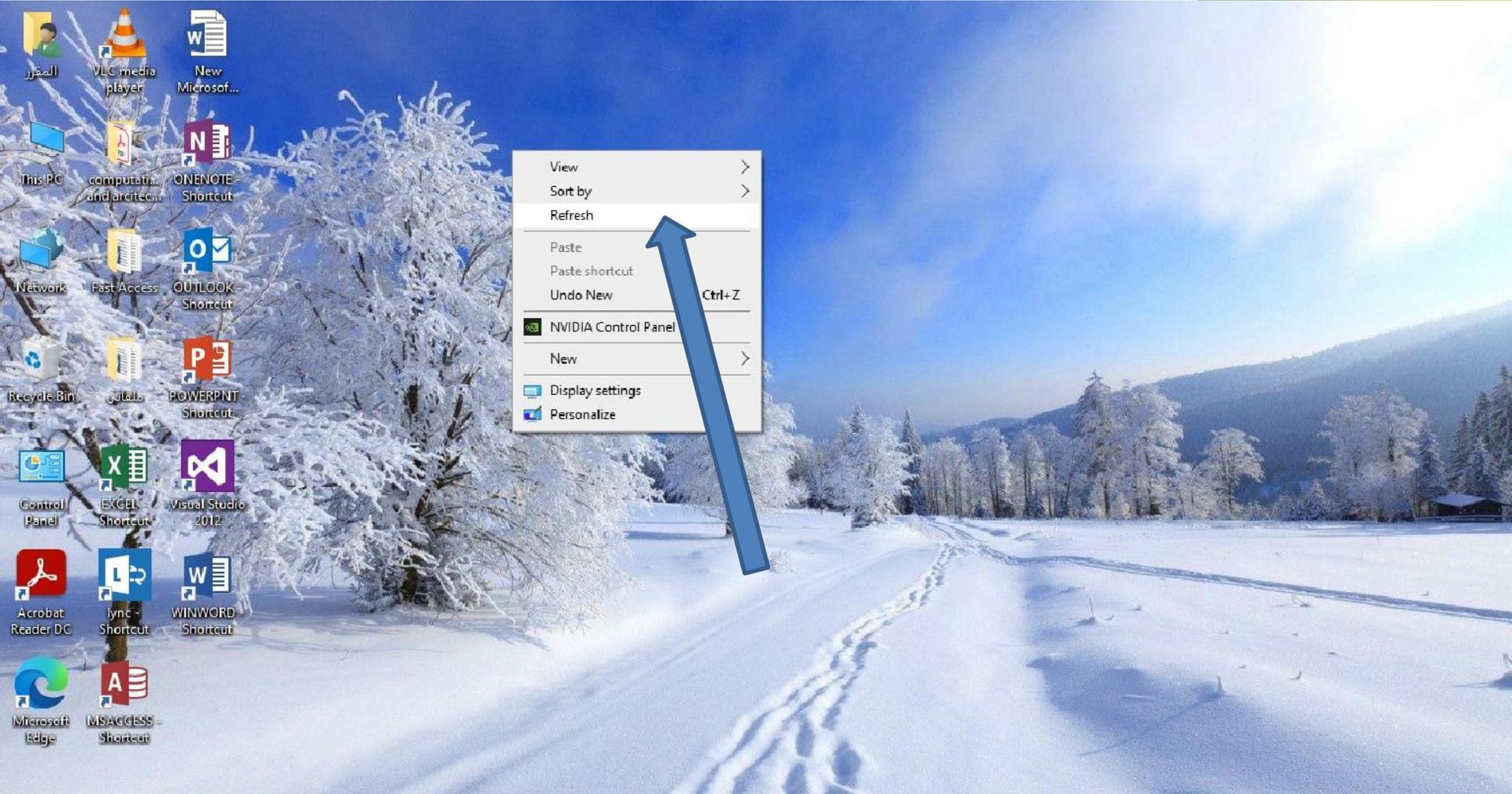
- Name
- Size
- Item type
- Date modified



Type here to search

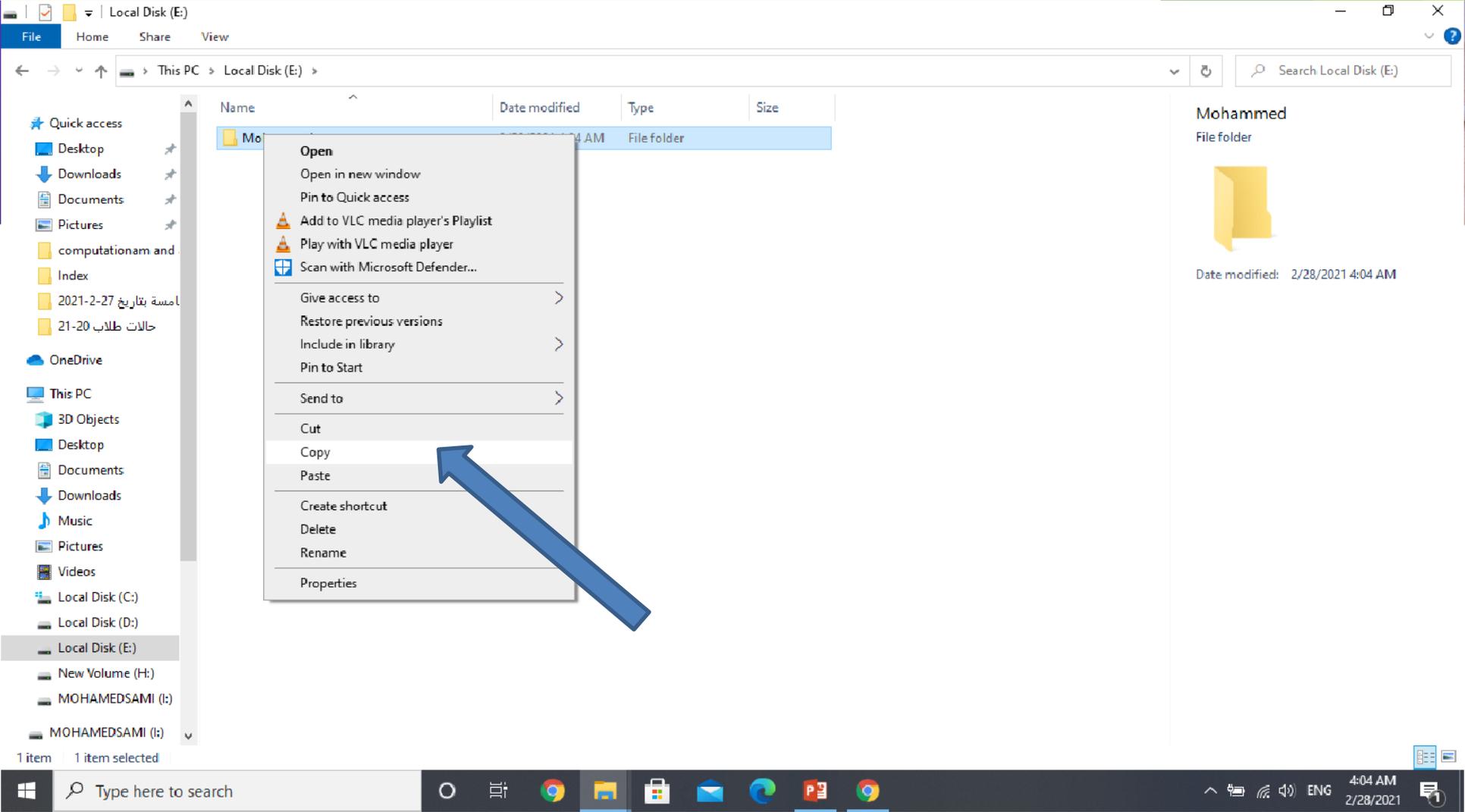


ENG 4:03 AM 2/28/2021



- View >
- Sort by >
- Refresh
- Paste
- Paste shortcut
- Undo New **Ctrl+Z**
- NVIDIA Control Panel
- New >
- Display settings
- Personalize





Local Disk (E:)

File Home Share View

This PC > Local Disk (E:)

Search Local Disk (E:)

- Quick access
  - Desktop
  - Downloads
  - Documents
  - Pictures
  - computationam and
  - Index
  - 2021-2-27 امسة بتاريخ
  - 21-20 حالات طلاب
- OneDrive
- This PC
  - 3D Objects
  - Desktop
  - Documents
  - Downloads
  - Music
  - Pictures
  - Videos
  - Local Disk (C:)
  - Local Disk (D:)
  - Local Disk (E:)
  - New Volume (H:)
  - MOHAMEDSAMI (I:)
  - MOHAMEDSAMI (I:)

Name	Date modified	Type	Size
Mohammed	2/28/2021 4:04 AM	File folder	

- Open
- Open in new window
- Pin to Quick access
- Add to VLC media player's Playlist
- Play with VLC media player
- Scan with Microsoft Defender...
- Give access to >
- Restore previous versions
- Include in library >
- Pin to Start
- Send to >
- Cut
- Copy
- Paste
- Create shortcut
- Delete
- Rename
- Properties

Mohammed  
File folder



Date modified: 2/28/2021 4:04 AM

1 item 1 item selected

Type here to search

4:04 AM 2/28/2021



- View >
- Sort by >
- Refresh

---

- Paste
- Paste shortcut
- Undo Rename Ctrl+Z

---

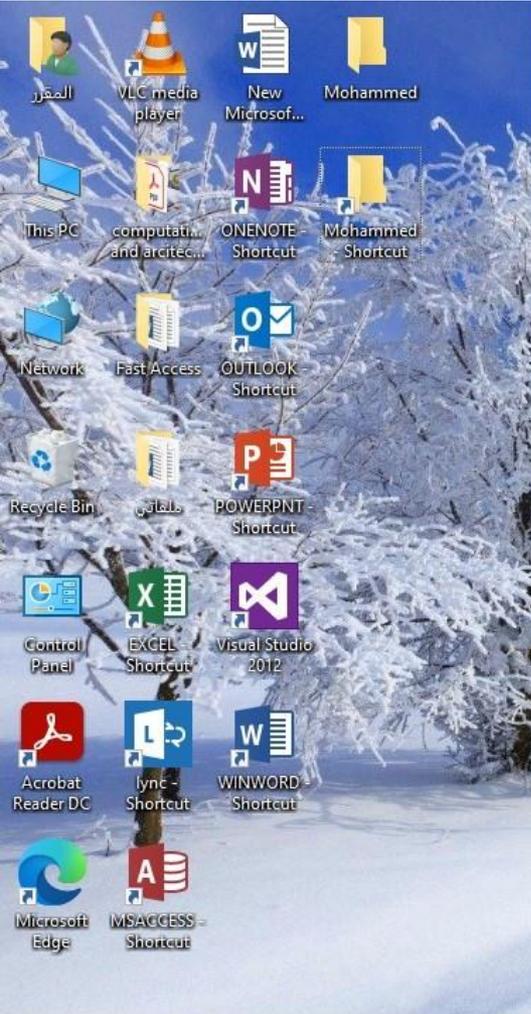
- NVIDIA Control Panel

---

- New >

---

- Display settings
- Personalize



- View >
- Sort by >
- Refresh

---

- Paste
- Paste shortcut
- Undo Copy Ctrl+Z

---

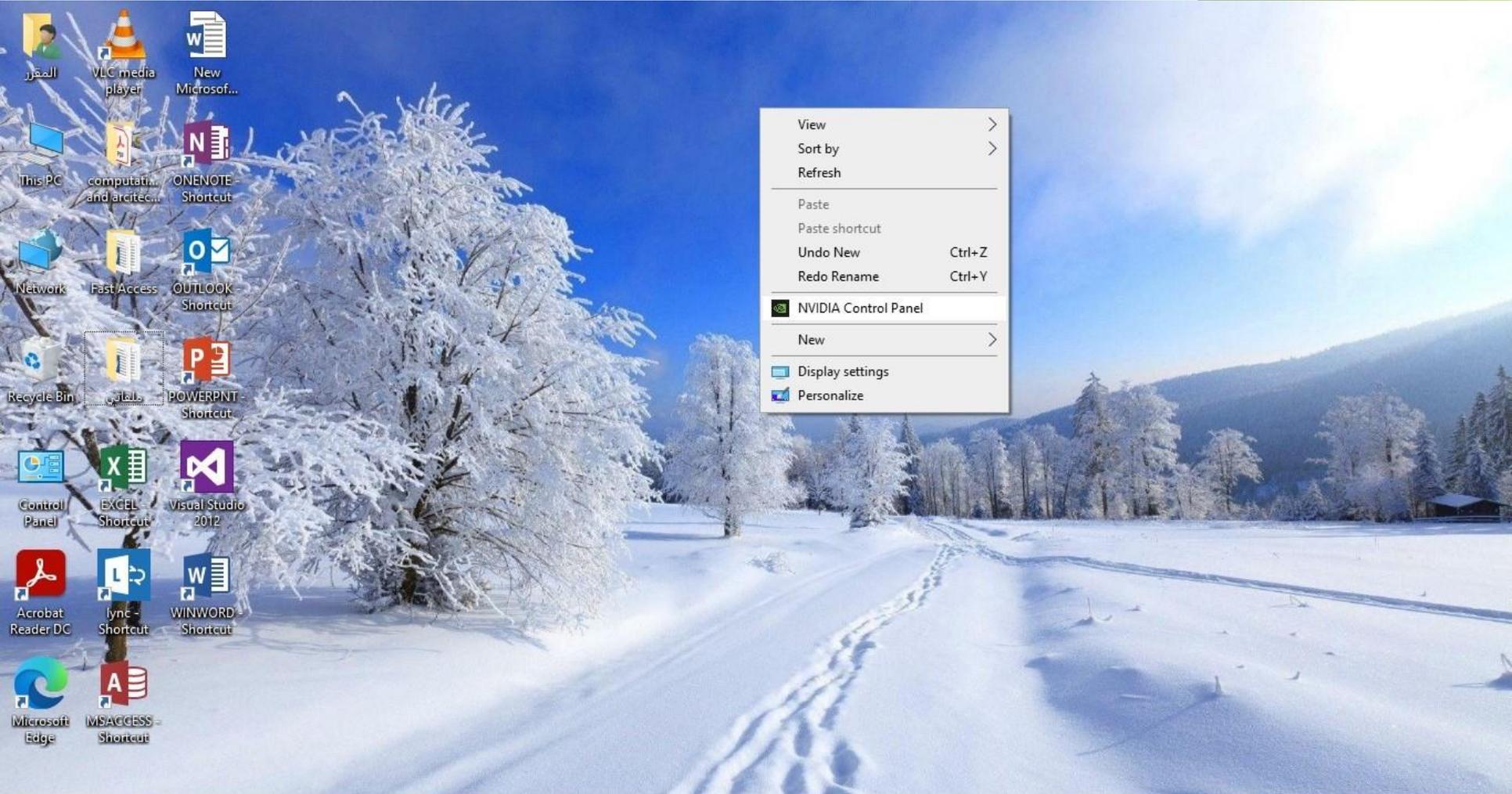
- NVIDIA Control Panel

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- New >

---

- Display settings
- Personalize



- المقرر
- VLC media player
- New Microsof...
- This PC
- computati... and arcitec...
- ONENOTE - Shortcut
- Network
- Fast Access
- OUTLOOK - Shortcut
- Recycle Bin
- ملفات
- POWERPNT - Shortcut
- Control Panel
- EXCEL - Shortcut
- Visual Studio 2012
- Acrobat Reader DC
- lync - Shortcut
- WINWORD - Shortcut
- Microsoft Edge
- MSACCESS - Shortcut

- View >
- Sort by >
- Refresh

---

- Paste
- Paste shortcut
- Undo New Ctrl+Z
- Redo Rename Ctrl+Y

---

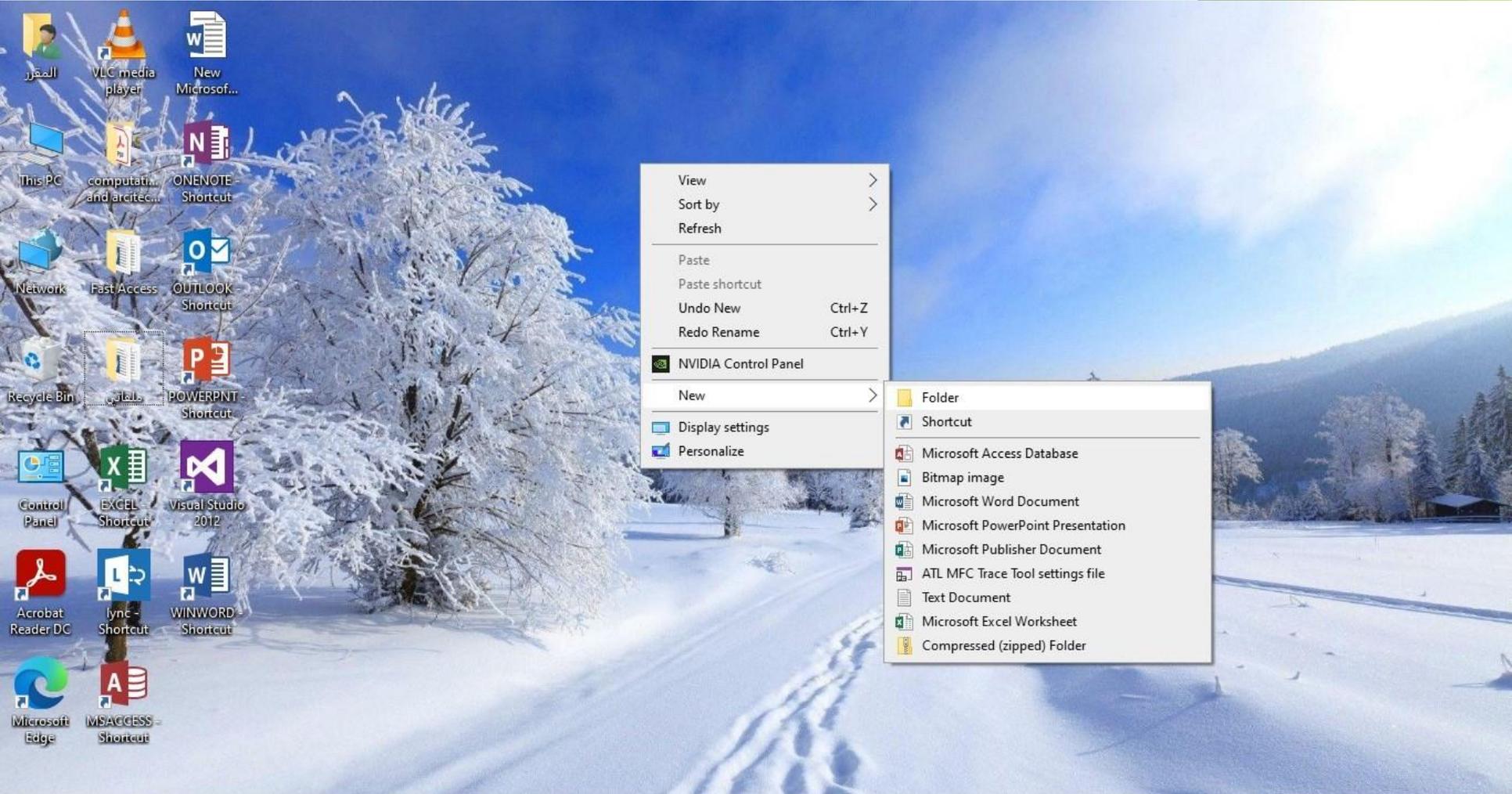
- NVIDIA Control Panel

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- New >

---

- Display settings
- Personalize



- المقرر
- VLC media player
- New Microsof...
- This PC
- computati... and arctec...
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- View >
- Sort by >
- Refresh

---

- Paste
- Paste shortcut
- Undo New Ctrl+Z
- Redo Rename Ctrl+Y
- NVIDIA Control Panel

---

- New >
- Display settings
- Personalize

- Folder
- Shortcut

---

- Microsoft Access Database
- Bitmap image
- Microsoft Word Document
- Microsoft PowerPoint Presentation
- Microsoft Publisher Document
- ATL MFC Trace Tool settings file
- Text Document
- Microsoft Excel Worksheet
- Compressed (zipped) Folder



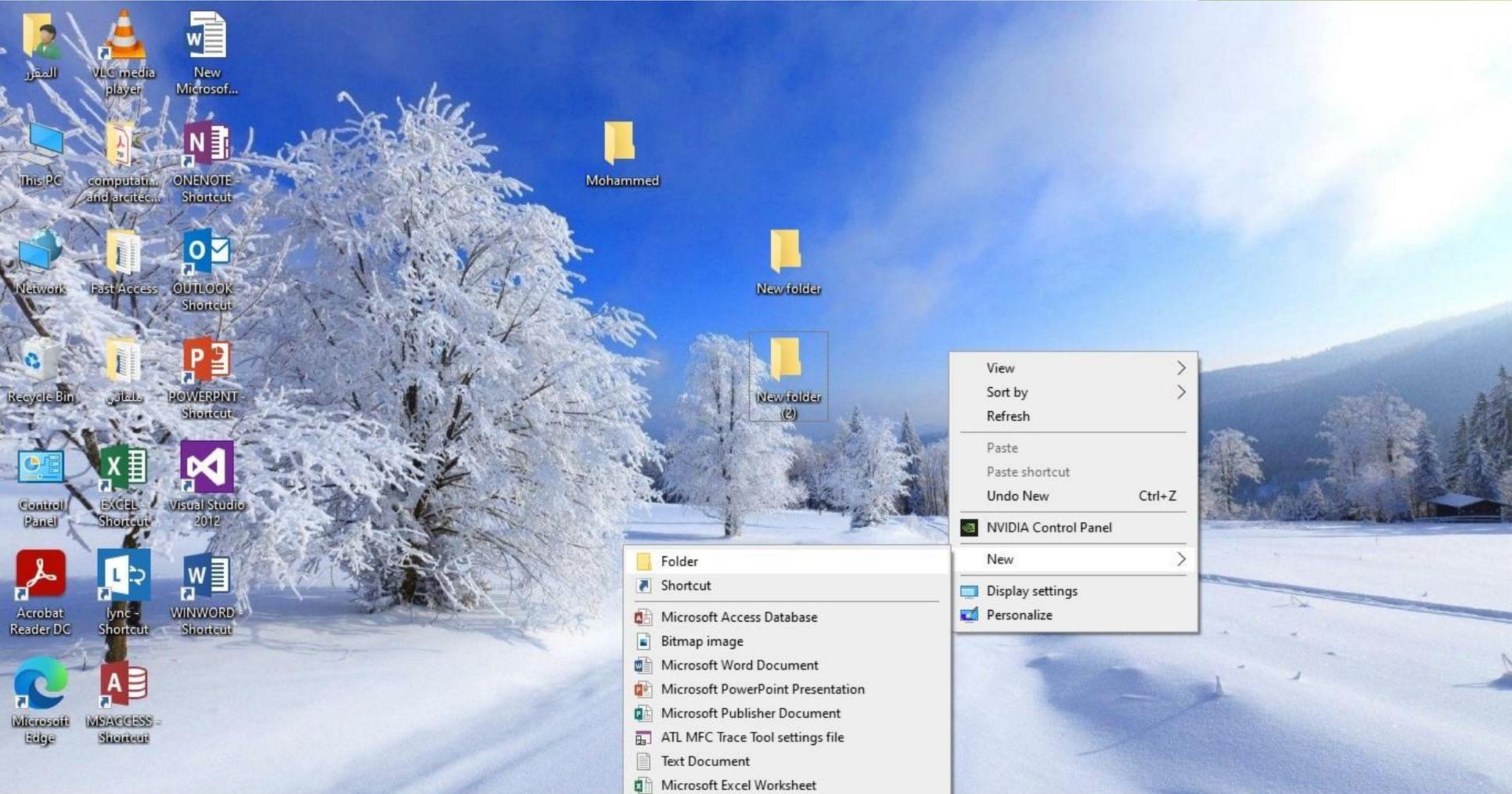
Windows taskbar containing the Start button, search bar with the text "Type here to search", taskbar icons for File Explorer, Mail, Edge, PowerPoint, and Chrome, system tray icons for network, volume, and language (ENG), and the system clock showing "4:10 AM 2/28/2021".



Windows taskbar with search bar: Type here to search

Taskbar icons: Start menu, Task View, Google Chrome, File Explorer, Mail, Microsoft Edge, PowerPoint, Google Chrome

System tray: Network, Volume, Language (ENG), Date and Time (4:10 AM 2/28/2021), Notification area



- المقرر
- VLC media player
- New Microsoft...
- This PC
- computati... and arctec...
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- Microsoft Edge
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Mohammed

New folder

New folder (2)

- Folder
- Shortcut
- Microsoft Access Database
- Bitmap image
- Microsoft Word Document
- Microsoft PowerPoint Presentation
- Microsoft Publisher Document
- ATL MFC Trace Tool settings file
- Text Document
- Microsoft Excel Worksheet
- Compressed (zipped) Folder

- View >
- Sort by >
- Refresh
- Paste
- Paste shortcut
- Undo New Ctrl+Z
- NVIDIA Control Panel
- New >
- Display settings
- Personalize



- Open**
- Pin to Quick access
- Add to VLC media player's Playlist
- Play with VLC media player
- Scan with Microsoft Defender...

---

- Give access to >
- Restore previous versions
- Include in library >
- Pin to Start

---

- Send to >

---

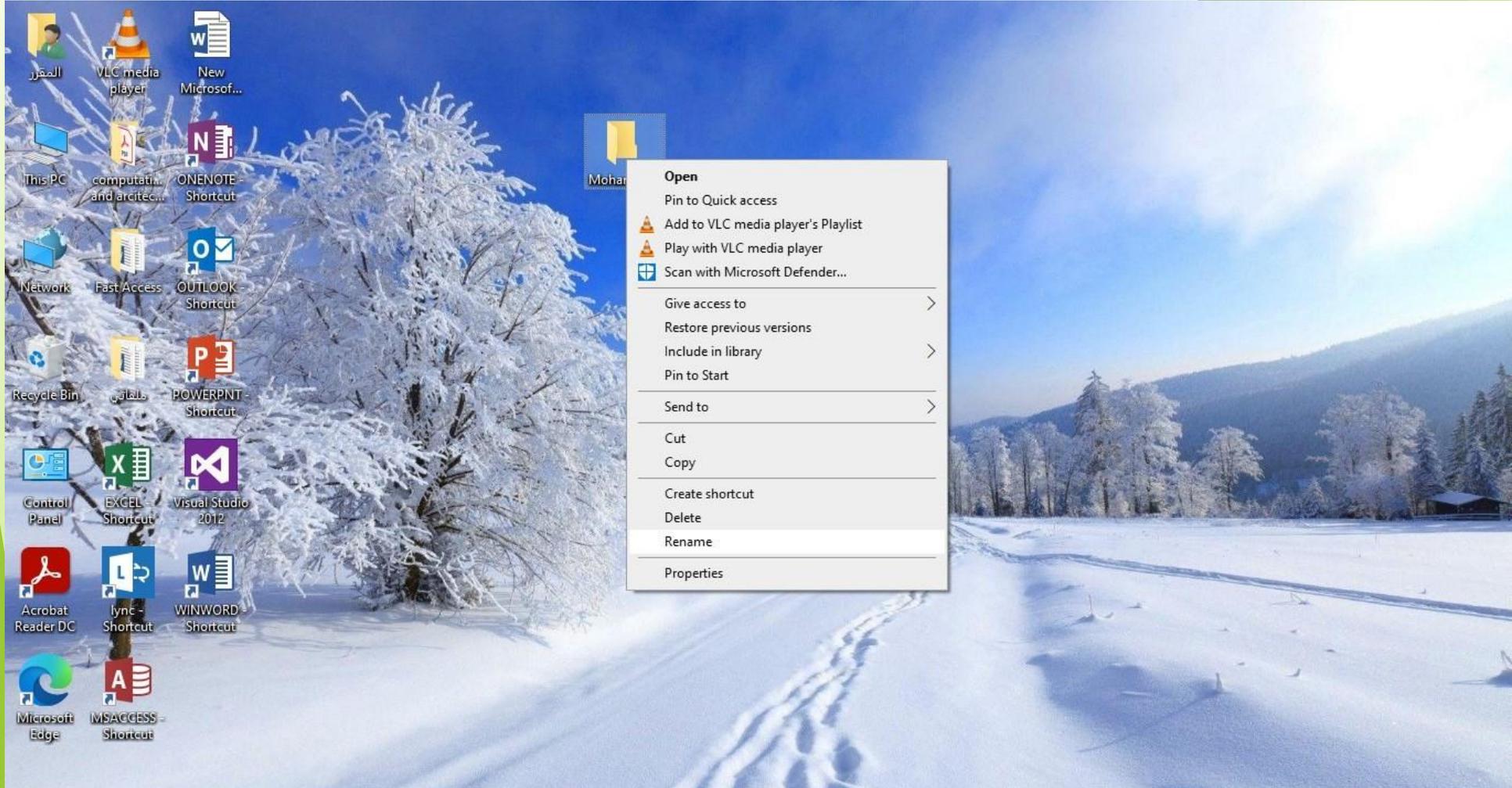
- Cut
- Copy

---

- Create shortcut
- Delete
- Rename**

---

- Properties



- المقرر
- VLC media player
- New Microsof...
- This PC
- computati... and arcitec...
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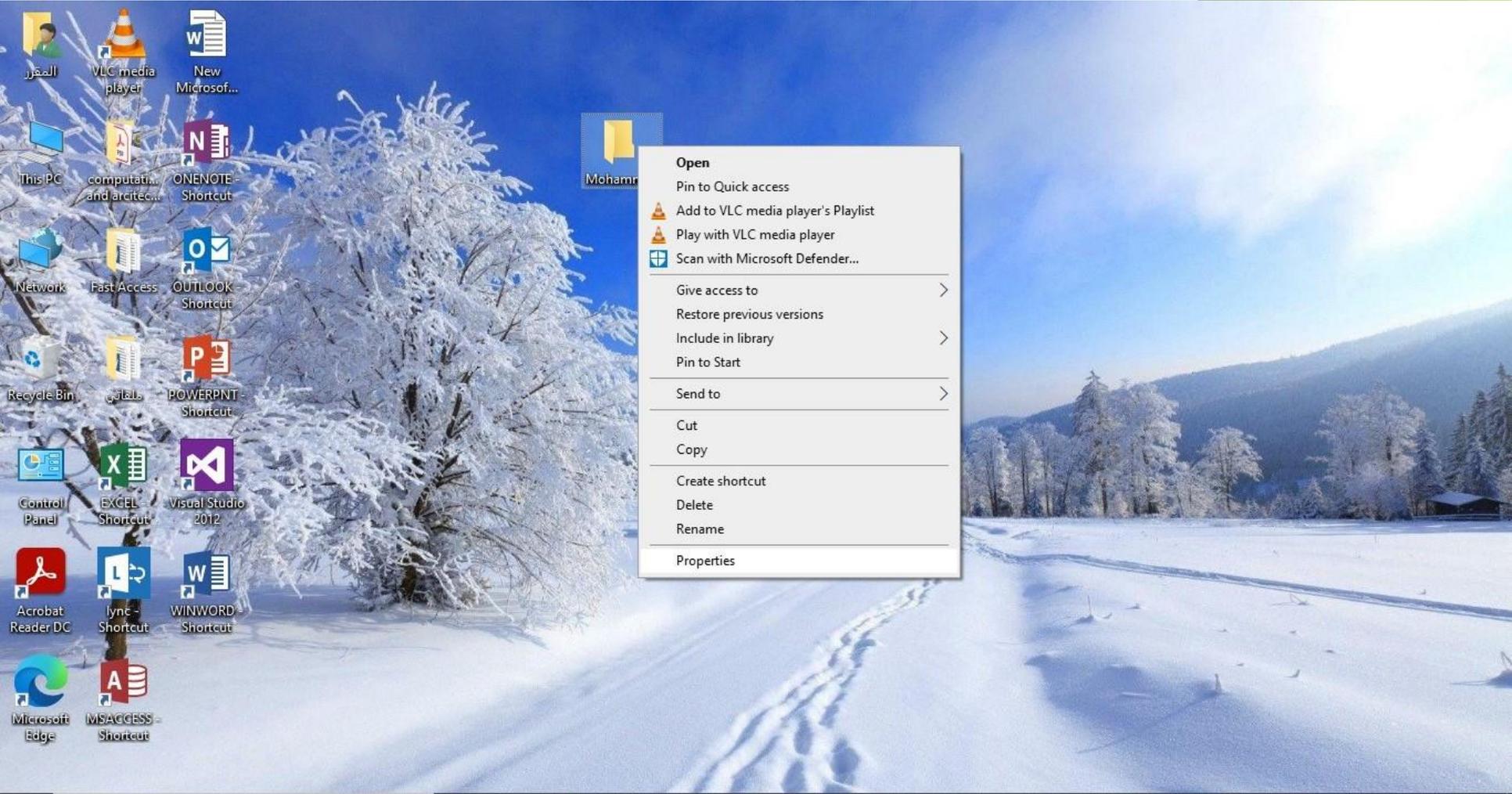


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- Scan with Microsoft Defender...
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Mohamm...

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  - Pin to Quick access
  - Add to VLC media player's Playlist
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- Microsoft Edge
- MSACCESS-Shortcut

Mohamr

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- Pin to Start
- Send to >
- Cut
- Copy
- Create shortcut
- Delete
- Rename
- Properties



Mohammed Properties

General Sharing Security Previous Versions Customize

Mohammed

Type: File folder

Location: C:\Users\المقرر\Desktop

Size: 0 bytes

Size on disk: 0 bytes

Contains: 0 Files, 0 Folders

Created: Sunday, February 28, 2021, 4:10:14 AM

Attributes:  Read-only (Only applies to files in folder)  
 Hidden Advanced...

OK Cancel Apply



### Mohammed Properties

General | Sharing | Security | Previous Versions | Customize

What kind of folder do you want?  
Optimize this folder for:  
General Items

Also apply this template to all subfolders

Folder pictures  
Choose a file to show on this folder icon.  
Choose File...  
Restore Default

Folder icons  
You can change the folder icon. If you change the icon, it will no longer show a preview of the folder's contents.  
Change Icon...

OK Cancel Apply



Mohammed Properties

General Sharing Security Previous Versions Customize

What kind of folder do you want?  
Optimize this folder for:  
General

Change Icon for Mohammed Folder

Look for icons in this file:  
systemRoot%\System32\SHELL32.dll Browse...

Select an icon from the list below:

Restore Defaults OK Cancel

OK Cancel Apply

The image shows a Windows 'Properties' dialog box for a folder named 'Mohammed'. The 'Customize' tab is active, showing options to change the folder's icon. A secondary dialog box, 'Change Icon for Mohammed Folder', is open over it, displaying a list of icons from the system shell. The path 'systemRoot%\System32\SHELL32.dll' is entered in the 'Look for icons in this file' field. The 'Change Icon' button is highlighted, and the 'OK' button in the secondary dialog is also highlighted.



Mohammed



Type here to search



ENG

4:15 AM  
2/28/2021





Mohammed Properties

General Sharing Security Previous Versions Customize

What kind of folder do you want?

Optimize this folder for:

Change Icon for Mohammed Folder

Look for icons in this file:

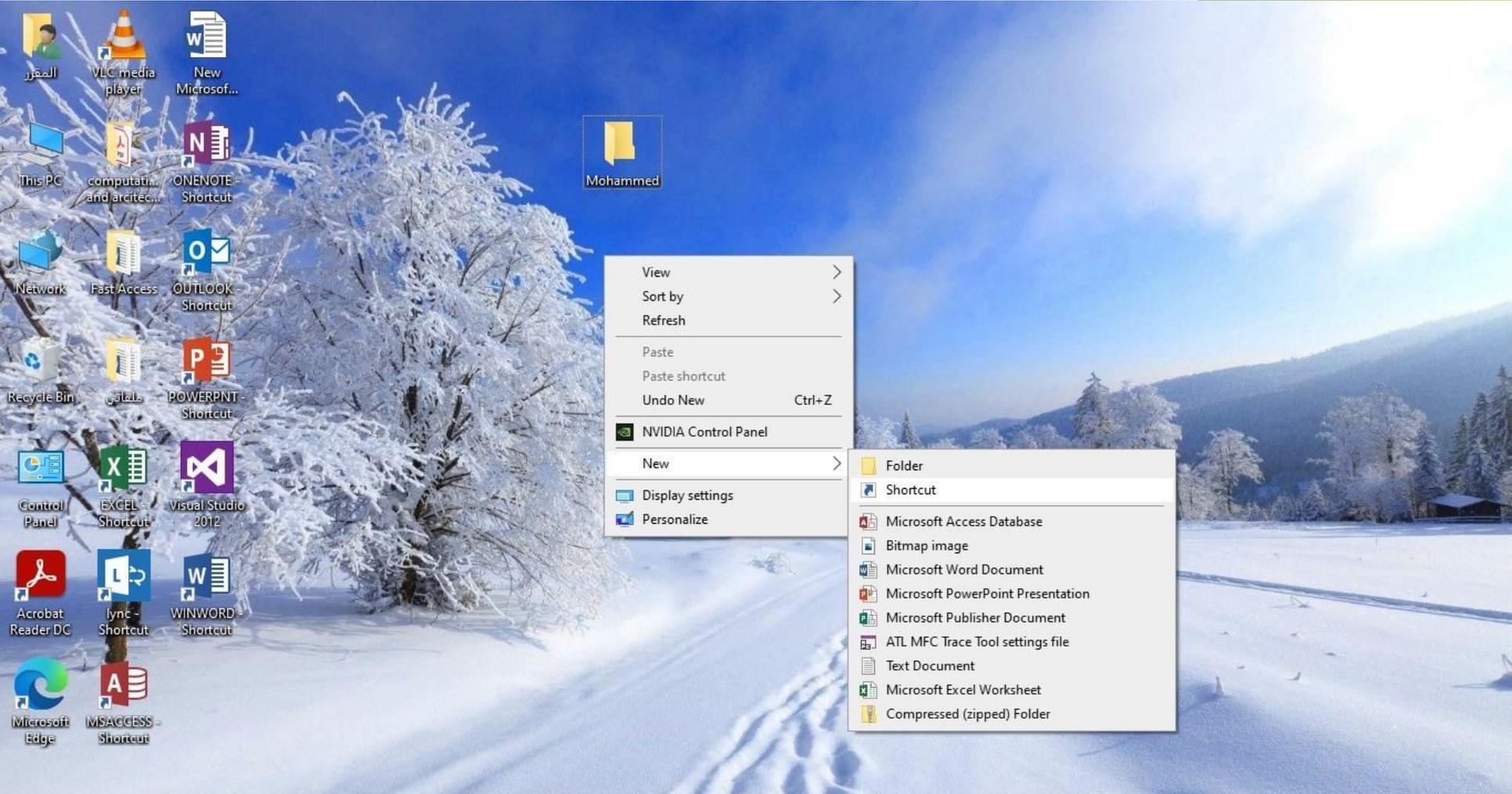
systemRoot%\System32\SHELL32.dll

Select an icon from the list below:

Restore Defaults OK Cancel

OK Cancel Apply

The image shows a Windows File Explorer 'Properties' dialog box for a folder named 'Mohammed'. The 'Customize' tab is selected. A secondary dialog box, 'Change Icon for Mohammed Folder', is open over it. This dialog allows the user to change the folder's icon. It has a text field containing the path 'systemRoot%\System32\SHELL32.dll' and a 'Browse...' button. Below the text field is a grid of various icons from the Windows shell. At the bottom of the dialog are buttons for 'Restore Defaults', 'OK', and 'Cancel'. The background dialog box shows the 'General' tab with a dropdown menu for 'What kind of folder do you want?' and an 'Optimize this folder for:' section.

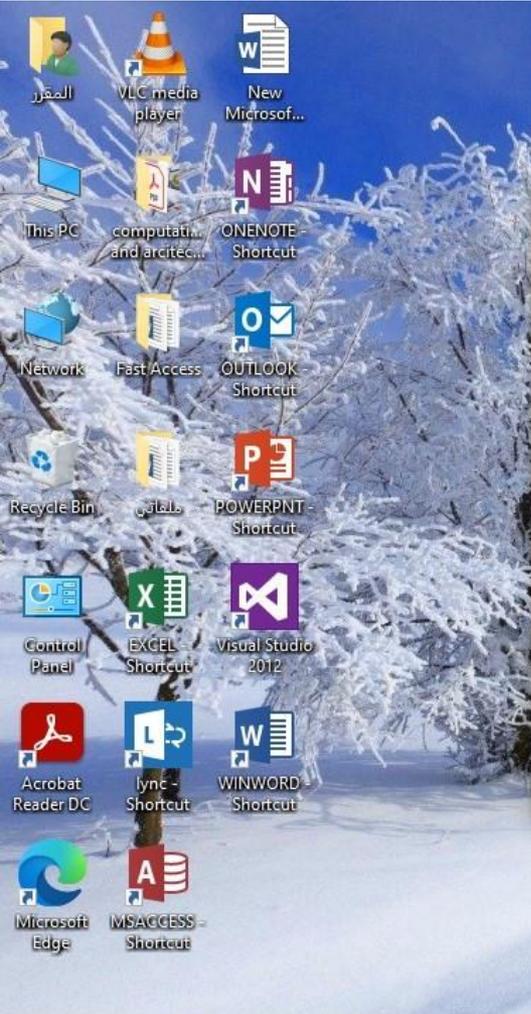


- المقرر
- VLC media player
- New Microsof...
- This PC
- computati... and arctec...
- ONENOTE Shortcut
- Network
- Fast Access
- OUTLOOK Shortcut
- Recycle Bin
- ملفات
- POWERPNT - Shortcut
- Control Panel
- EXCEL - Shortcut
- Visual Studio 2012
- Acrobat Reader DC
- lync - Shortcut
- WINWORD - Shortcut
- Microsoft Edge
- MSACCESS - Shortcut

Mohammed

- View >
- Sort by >
- Refresh
- Paste
- Paste shortcut
- Undo New Ctrl+Z
- NVIDIA Control Panel
- New >
- Display settings
- Personalize

- Folder
- Shortcut
- Microsoft Access Database
- Bitmap image
- Microsoft Word Document
- Microsoft PowerPoint Presentation
- Microsoft Publisher Document
- ATL MFC Trace Tool settings file
- Text Document
- Microsoft Excel Worksheet
- Compressed (zipped) Folder



← Create Shortcut

What item would you like to create a shortcut for?

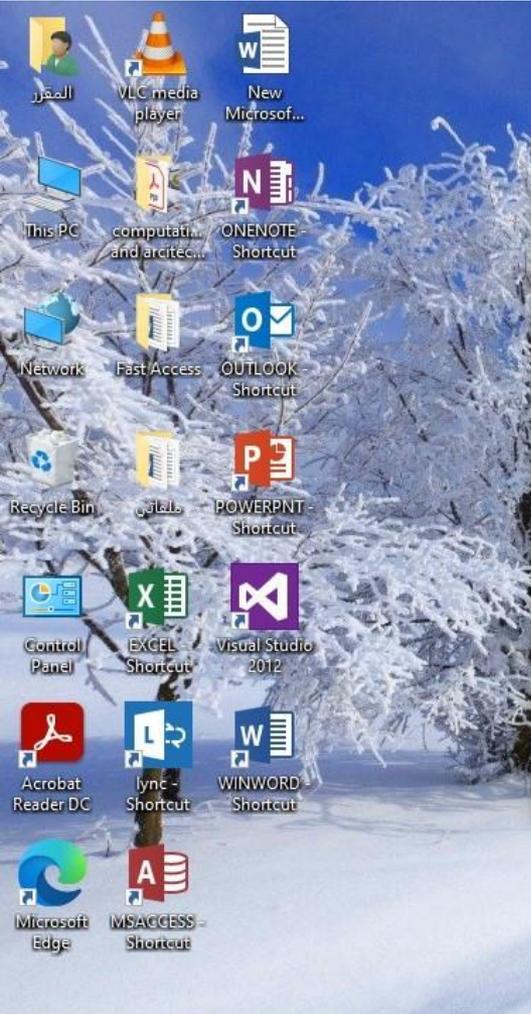
This wizard helps you to create shortcuts to local or network programs, files, folders, computers, or Internet addresses.

Type the location of the item:

Browse...

Click Next to continue.

Next Cancel



**Create Shortcut**

What item would you like to create a shortcut for?

This wizard helps you create shortcuts for files, folders, computers, or Internet addresses.

Type the location of the item:

Click Next to continue.

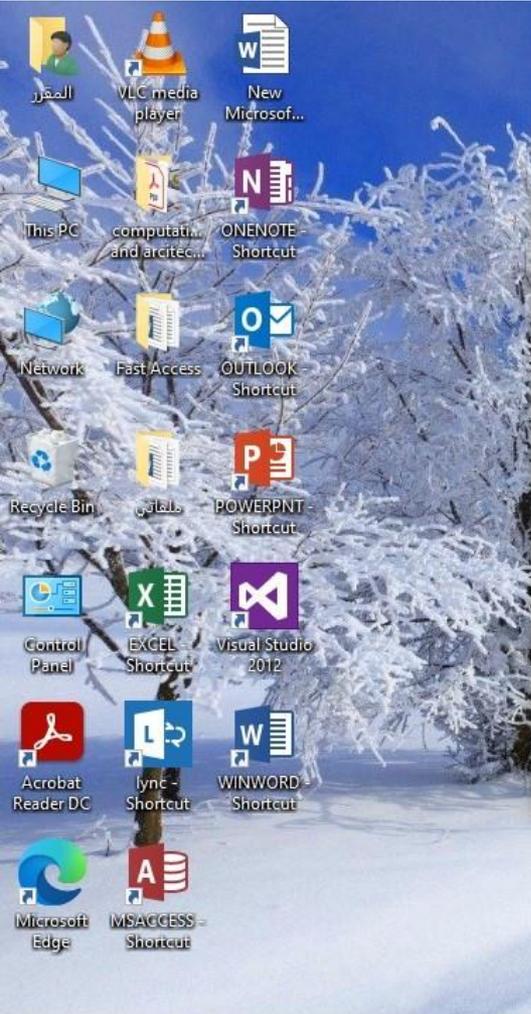
**Browse for Files or Folders**

Select the target of the shortcut below:

- Desktop
- OneDrive
- المقرر
- This PC
- Libraries
- Network
- Acrobat Reader DC
- Microsoft Edge
- VLC media player

Make New Folder OK Cancel

Next Cancel



**Create Shortcut**

What item would you like to create a shortcut for?

This wizard helps you create shortcuts for files, folders, programs, computers, or Internet addresses.

Type the location of the item:

Click Next to continue.

**Browse for Files or Folders**

Select the target of the shortcut below:

- ✓ This PC
  - > 3D Objects
  - > Desktop
  - > Documents
  - > Downloads
  - > Music
  - > Pictures
  - > Videos
  - > Local Disk (C:)

Buttons: Make New Folder, OK, Cancel, Next, Cancel



**Create Shortcut**

What item would you like to create a shortcut for?

This wizard helps you create shortcuts for files, folders, computers, or Internet addresses.

Type the location of the item in the following text box.

Click Next to continue.

**Browse for Files or Folders**

Select the target of the shortcut below:

- Videos
- Local Disk (C:)
  - Intel
  - OneDrive
  - PerfLogs
  - Program Files
  - Program Files (x86)
  - Users
  - Windows

Buttons: Make New Folder, OK, Cancel, Next, Cancel

Clipboard Slides Drawing Editing

Text Direction, Align Text, Convert to SmartArt, Shape Fill, Shape Outline, Shape Effects, Find, Replace, Select

- 40
- 41
- 42 Registers
- 43 Registers
- 44 The control unit
- 45 Data Representation Number system

Create Shortcut

What item would you like to create a shortcut for?

This wizard helps you create shortcuts for folders, computers, or Internet addresses.

Type the location of the item:

Click Next to continue.

Browse for Files or Folders

Select the target of the shortcut below:

- libEGL.dll
- libGLESv2.dll
- LICENSE.electron
- LICENSES.chromium
- Mendeley Reference Manage
- resources.pak
- snapshot\_blob.bin
- Uninstall Mendeley Reference

Make New Folder OK Cancel

Next Cancel

م.د. محمد ميامي محمد

Clipboard: Paste, Cut, Copy, Format Painter, New Slide, Section

Font: 18, Bold, Italic, Underline, Text Direction, Align Text, Convert to SmartArt

Drawing: Arrange, Quick Styles, Shape Fill, Shape Outline, Shape Effects, Find, Replace, Select

Create Shortcut dialog box:  
What item would you like to create a shortcut for?  
This wizard helps you to create shortcuts to local or network programs, files, folders, computers, or Internet addresses.  
Type the location of the item:  
 Browse...  
Click Next to continue.  
Next Cancel

Slide thumbnails: 40, 41, 42, 43 (Registers), 44 (The control unit), 45 (Data Representation Number system)

Slide content area: Image of a desk with a laptop, keyboard, and smartphone. Footer: م.د. محمد ميامي محمد 43

Clipboard: Cut, Copy, Paste, Format Painter, New Slide, Section, Slides

Font: 18, Bold, Italic, Underline, Text Direction, Align Text, Convert to SmartArt

Drawing: Arrange, Quick Styles, Shape Fill, Shape Outline, Shape Effects

Editing: Find, Replace, Select

### Create Shortcut

What would you like to name the shortcut?

Type a name for this shortcut:

Click Finish to create the shortcut.

Finish Cancel

Slide thumbnails:

- 43
- 44 The control unit
- 45 Data Representation Number system
- 46 Data Representation Number system
- 47 BINARY NUMBER SYSTEM

Click to add notes



م.د. محمد ميامي محمد



المقرر



VLC media player



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This PC



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Microsoft Edge



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Mohammed



Mendeley Reference Manager



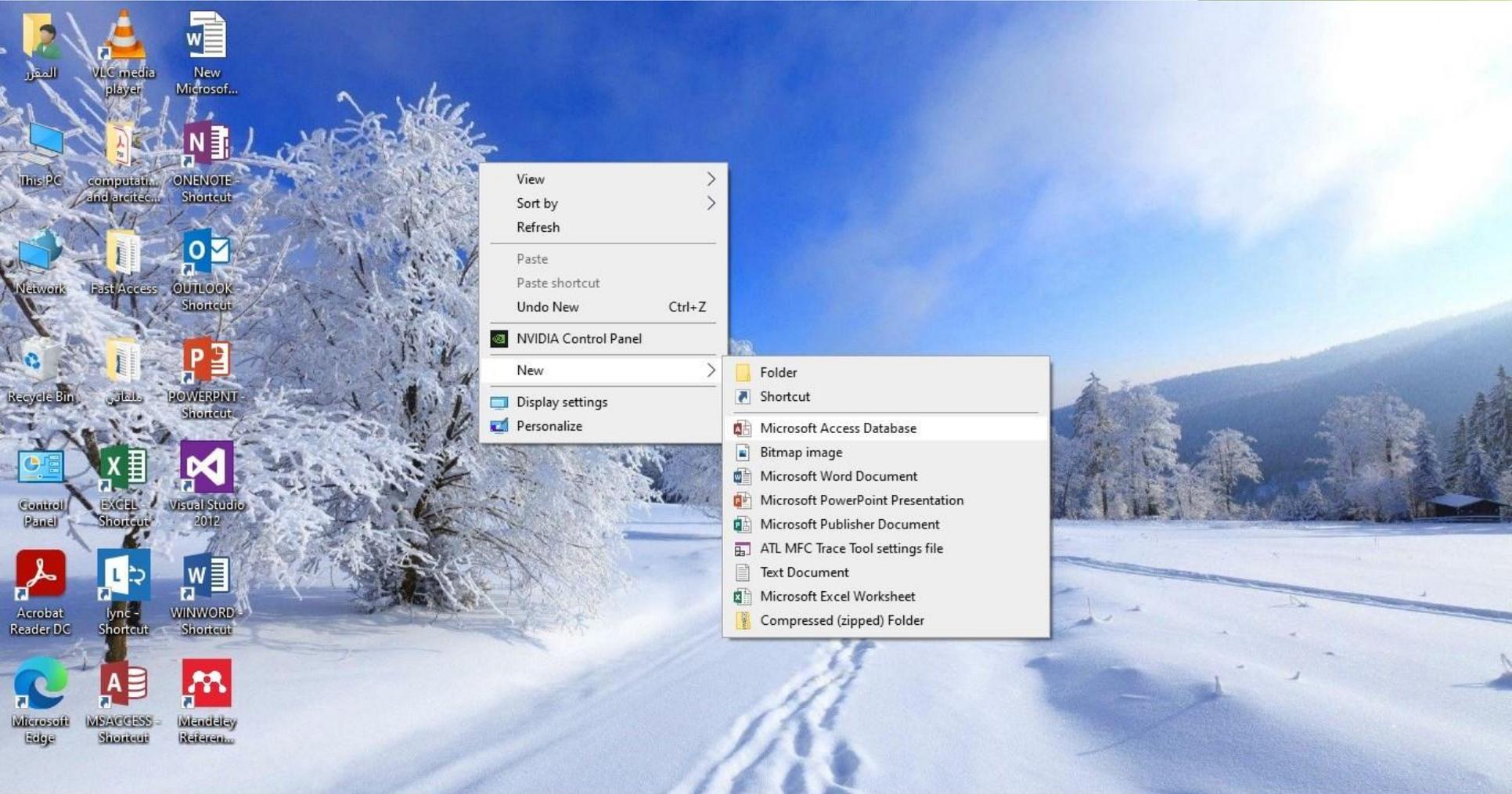
Type here to search



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2/28/2021





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