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Course Code : BCSL-013

Course Title : Computer Basics and PC Software

Assignment Number : BCA(1)/L-013/Assignment/2022-23

Maximum Marks : 100

Weightage : 25% www.ignousite.com

Last date of Submission : 31st October, 2022 (For July Session)

: 15th April, 2023 (For January Session)



Section 1: Linux operating system

Q1. (a) Run the following (Linux commands and write the output)

- mkdir
- init
- ls -l
- chmod
- kill

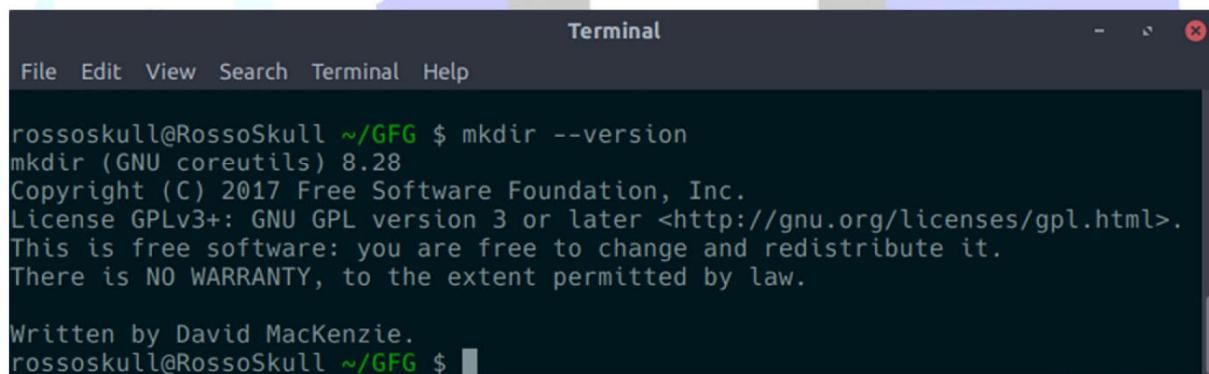
Ans.

mkdir

mkdir command in Linux allows the user to create directories (also referred to as folders in some operating systems). This command can create multiple directories at once as well as set the permissions for the directories. It is important to note that the user executing this command must have enough permissions to create a directory in the parent directory, or he/she may receive a 'permission denied' error.

Syntax: `mkdir <directoryName>`

Output:



The screenshot shows a terminal window titled 'Terminal'. The menu bar includes 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The command entered is `rossoskull@RossoSkull ~/GFG $ mkdir --version`. The output displays the version information for the 'mkdir' command, including the copyright notice from the Free Software Foundation and the GPL license details.

```
rossoskull@RossoSkull ~/GFG $ mkdir --version
mkdir (GNU coreutils) 8.28
Copyright (C) 2017 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.

Written by David MacKenzie.
rossoskull@RossoSkull ~/GFG $
```

Init

Init The init command initializes and controls processes. Its primary role is to start processes based on records read from the /etc/inittab file. The /etc/inittab file usually requests that the init command run the getty command for each line on which a user can log in. The init command controls autonomous processes required by the system.

The process that constitutes the majority of the init command's process dispatching activities is /usr/sbin/getty.

The /usr/sbin/getty process initiates individual terminal lines. Other processes typically dispatched by the init command are daemons and the shell.

Syntax: Init 6

Output:

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~  
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ init 6
```

ls -l

ls -l To show long listing information about the file/directory.

Output:

```
maverick@maverick-Inspiron-5548:~$ ls -l  
total 44892  
-rw-rw-r-- 1 maverick maverick 1176 Feb 16 00:19 1.c  
-rwxrwxr-x 1 maverick maverick 9008 May 10 22:54 a.out  
-rwrw-r-- 1 maverick maverick 484 Mar 29 22:18 ass8_1.c  
-rwrw-r-- 1 maverick maverick 19920 Feb 16 00:20 binary.txt  
-rwrw-r-- 1 maverick maverick 67 May 31 13:16 cfile.c  
-rwrw-r-- 1 maverick maverick 187 May 31 13:21 c++file.cpp  
-rwrw-r-- 1 maverick maverick 1552 May 31 13:37 cfile.o  
-rwxrwxr-x 1 maverick maverick 8120 May 31 13:37 cfile.so  
-rwrw-r-- 1 maverick maverick 1017 Feb 17 04:43 client.c  
drwxr-xr-x 2 maverick maverick 4096 May 27 22:28 Desktop  
drwxr-xr-x 2 maverick maverick 4096 Apr 2 04:11 Documents  
drwxr-xr-x 2 maverick maverick 4096 May 31 13:12 Downloads  
-rwrw-r-- 1 maverick maverick 54 Mar 29 22:23 end.txt  
drwxrwxr-x 11 maverick maverick 4096 Nov 18 2016 Exam  
-rwrw-r-- 1 maverick maverick 8980 Nov 6 2016 examples.desktop  
drwxr-xr-x 6 maverick maverick 4096 Nov 18 2016 FALCONN-1.2  
-rwrw-r-- 1 maverick maverick 513 May 10 22:47 fifo1.c  
-rwrw-r-- 1 maverick maverick 496 May 10 22:47 fifo2.c  
-rwrw-r-- 1 maverick maverick 152 Jun 3 16:43 first.txt  
-rwrw-r-- 1 maverick maverick 10856 Nov 18 2016 glove.cc  
-rwrw-r-- 1 maverick maverick 45750028 Nov 1 2016 google-chrome-stable_current_amd64.deb
```

Chmod

chmod The chmod command is used to change the access mode of a file. The name is an abbreviation of change mode.

Syntax : chmod [reference][operator][mode] file...

Output:

```
Terminal
File Edit View Terminal Tabs Help
roman@ibmclass:~/tsfiles> chmod a=r workfolder/
roman@ibmclass:~/tsfiles> ls -l
total 0
-rwxrwxrwx 1 tom sales 0 2011-09-28 10:48 testfile
dr--r--r-- 2 roman sales 48 2011-09-28 10:47 workfolder
roman@ibmclass:~/tsfiles> chmod 777 workfolder/
roman@ibmclass:~/tsfiles> ls -l
total 0
-rwxrwxrwx 1 tom sales 0 2011-09-28 10:48 testfile
drwxrwxrwx 2 roman sales 48 2011-09-28 10:47 workfolder
roman@ibmclass:~/tsfiles>
```

kill

kill kill command in Linux (located in /bin/kill), is a built-in command which is used to terminate processes manually. kill command sends a signal to a process which terminates the process. If the user doesn't specify any signal which is to be sent along with kill command then default TERM signal is sent that terminates the process.

Syntax: \$kill -l

Output:

```
File Edit View Search Terminal Help
root@AJ7:/home/demon# kill -l
 1) SIGHUP      2) SIGINT      3) SIGQUIT      4) SIGILL      5) SIGTRAP
 6) SIGABRT     7) SIGBUS      8) SIGFPE       9) SIGKILL     10) SIGUSR1
11) SIGSEGV     12) SIGUSR2     13) SIGPIPE     14) SIGALRM     15) SIGTERM
16) SIGSTKFLT   17) SIGCHLD     18) SIGCONT     19) SIGSTOP     20) SIGTSTP
21) SIGTTIN     22) SIGTTOU     23) SIGURG      24) SIGXCPU     25) SIGXFSZ
26) SIGVTALRM   27) SIGPROF     28) SIGWINCH    29) SIGIO       30) SIGPWR
31) SIGSYS      34) SIGRTMIN    35) SIGRTMIN+1  36) SIGRTMIN+2  37) SIGRTMIN+3
38) SIGRTMIN+4  39) SIGRTMIN+5  40) SIGRTMIN+6  41) SIGRTMIN+7  42) SIGRTMIN+8
43) SIGRTMIN+9  44) SIGRTMIN+10 45) SIGRTMIN+11 46) SIGRTMIN+12 47) SIGRTMIN+13
48) SIGRTMIN+14 49) SIGRTMIN+15 50) SIGRTMAX-14 51) SIGRTMAX-13 52) SIGRTMAX-12
53) SIGRTMAX-11 54) SIGRTMAX-10 55) SIGRTMAX-9  56) SIGRTMAX-8  57) SIGRTMAX-7
58) SIGRTMAX-6  59) SIGRTMAX-5  60) SIGRTMAX-4  61) SIGRTMAX-3 62) SIGRTMAX-2
63) SIGRTMAX-1  64) SIGRTMAX
root@AJ7:/home/demon#
```

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(b) Perform the following tasks in Linux

(i) Display the first 10 lines and last 10 lines of a text file (you need to create a text file consisting around 50 lines)

Ans.

Command to create a new directory: mkdir New_directory

Command to change directory: cd New_directory

Command to create a new text file: cat>bcsl13.txt

Press ctrl+D to save the file.

Display first 10 line from txt file:

Command: head

Syntax: head -10 <filename.txt>

Output:

```
Home@IGNOU-PC ~
$ mkdir New_directory

Home@IGNOU-PC ~
$ cd New_directory

Home@IGNOU-PC ~/New_directory
$ cat>bcsl13.txt
BCSL 13 is a Lab Assignment.
It should make it on PC.
You can use MS Word to assemble all the data.
If you want to get good marks on it then you should follow all the instructions.
In the assignment you can see there are five sections.
You should read all the sections very carefully.
This is the BASIC in BCA.
Learn it very well.
BCSL 13
In the front part of the assignment you should attach cover page.
```

Home@IGNOU-PC ~/New_directory

Display last 10 line from txt file:

Command: tail

Syntax: tail -10 <filename.txt>

Output:

```
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Home@IGNOU-PC ~
$ mkdir New_directory

Home@IGNOU-PC ~
$ cd New_directory

Home@IGNOU-PC ~/New_directory
$ cat>bcs113.txt
```

If you want to get good marks on it then you should follow all the instructions.
In the assignment you can see there are five sections.
You should read all the sections very carefully.
This is the BASIC in BCA.
Learn it very well.
BCSL 13
In the front part of the assignment you should attach cover page.
I think all the doubts clear.
Thank you.
Stay Safe and healthy.

```
Home@IGNOU-PC ~/New_directory
```

(ii) Identify all files in your home directory which a group has written permission on it.

Ans.

Command 1: chmod a+w <filename.txt>

Command 2: ls -l

```
Home@IGNOU-PC ~/New_directory
$ ls -l
total 1
-rw-rw-rw- 1 Home None 574 Sep 16 14:20 bcs113.txt

Home@IGNOU-PC ~/New_directory
$ |
```



(iii) TO count the no. of time word “the” has occurred in the text file.

Ans.

We can use grep command to count the number of times “the” appears in the file as shown.

Syntax: grep -wc “yourtext” filename

Output:

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Home@IGNOU-PC ~/New_directory

\$ cat bcs113.txt

BCSL 13 is a Lab Assignment.

It should make it on PC.

You can use MS Word to assemble all **the** data.

If you want to get good marks on it then you should follow all **the** instructions.

In **the** assignment you can see there are five sections.

You should read all **the** sections very carefully.

This is **the** BASIC in BCA.

Learn it very well.

BCSL 13

In **the** front part of assignment you should attach cover page.

I think all **the** doubts clear.

Thank you.

Stay Safe and healthy.

Home@IGNOU-PC ~/New_directory

\$ grep -wc "the" bcs113.txt

7

Home@IGNOU-PC ~/New_directory

\$



ESTD : 2014

Section 2: Power Point

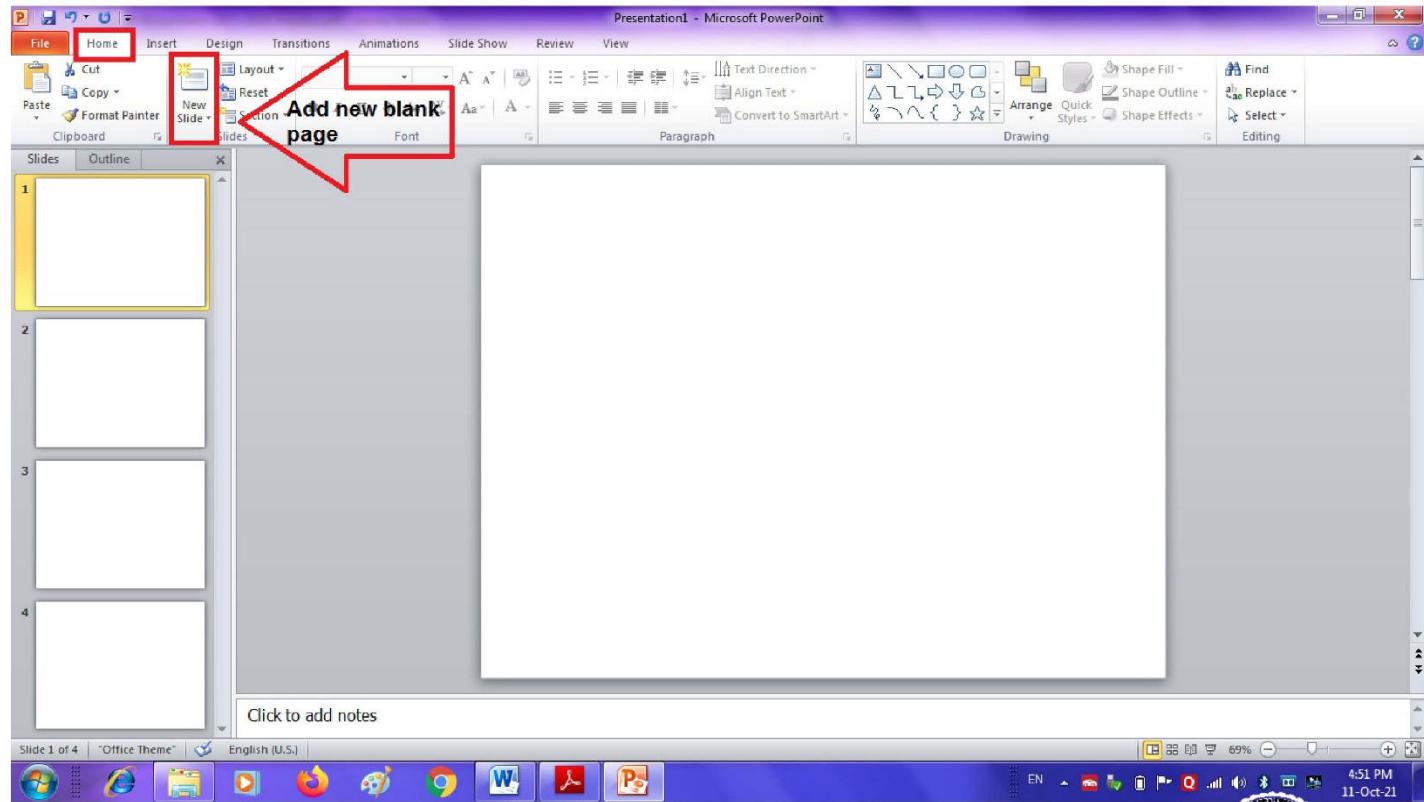
Q.2 Create a Power Point Presentation on the important feature of Window OS (minimum 10 slides)

- (i) All slides should follow the common design format
- (ii) Add a video to at least one slide which can be run on full screen option
- (iii) All the slides should have timer based transition.
- (iv) All the slides should have perform heading and slide notes.
- (v) Each slide should have one image related to Windows operating system.

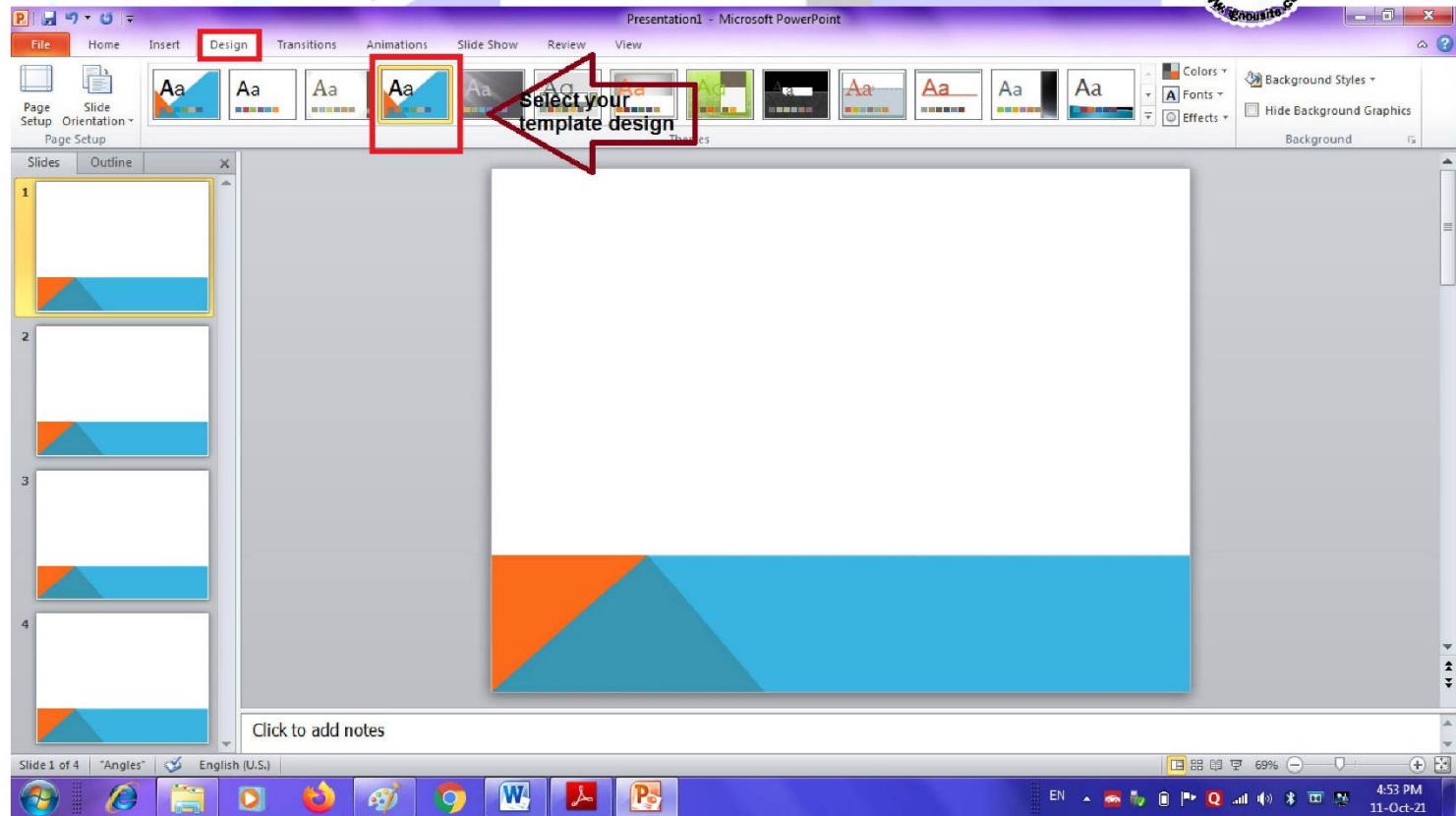
Ans.

Creating a Power Point Presentation on the important features of Windows OS:-

Step: 1. Select 'Home' from menu bar and click on 'new slide' option.



Step: 2. Click on 'Design' from menu bar and select template design as your choice.



Step: 3. Click on 'Insert' option from menu bar and click on 'text box' option for type text.

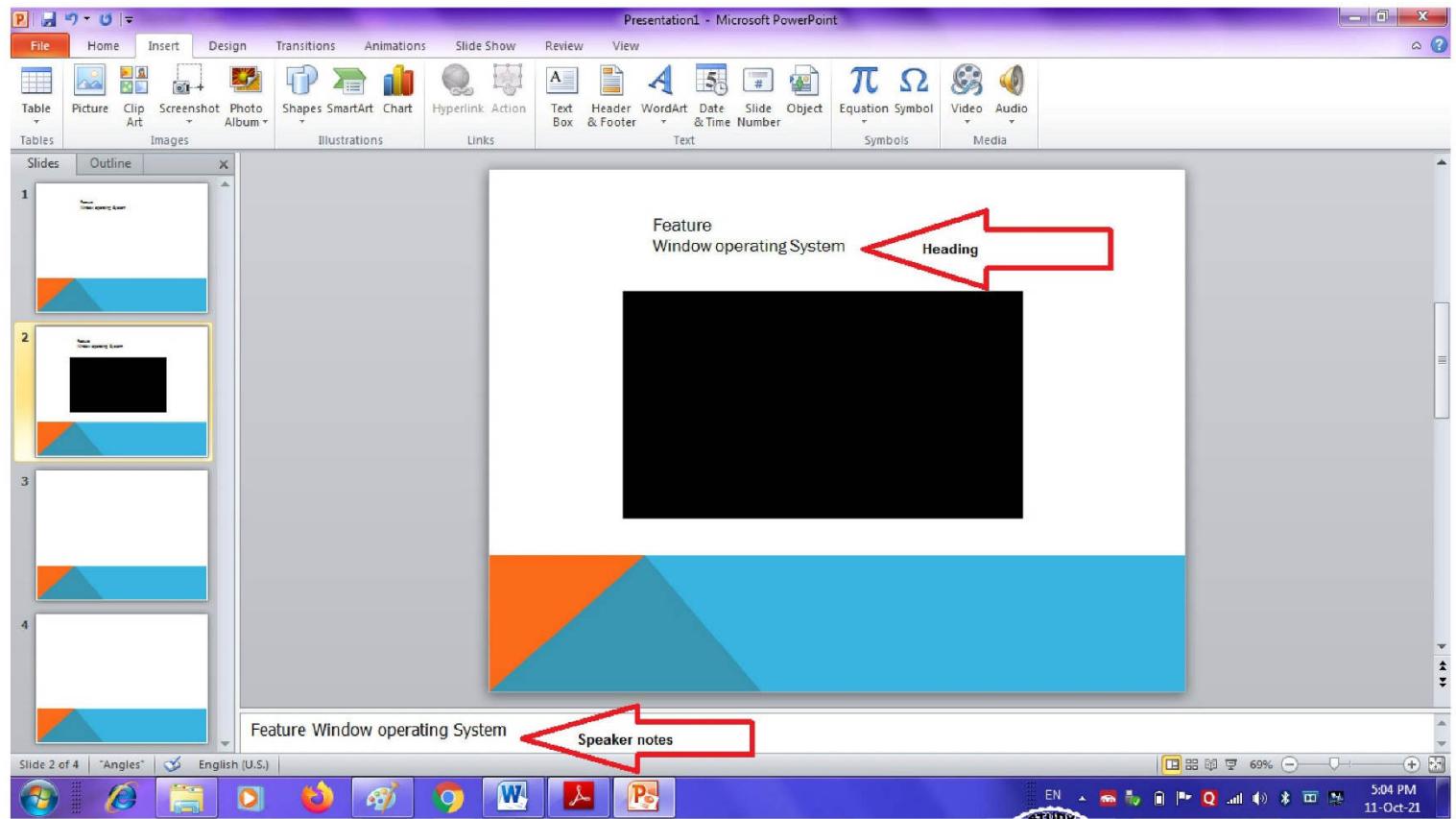


A screenshot of Microsoft PowerPoint. The ribbon at the top has 'Insert' highlighted with a red box. Below the ribbon, the 'Text Box' icon in the 'Text' section is also highlighted with a red box. On the slide, there is a text box containing the text 'Click here to some text'. A large red arrow points upwards towards the text box. To the right of the text box, there is a dashed line connecting to another text box with the placeholder 'Type your text here'. A large black arrow points towards this second text box.

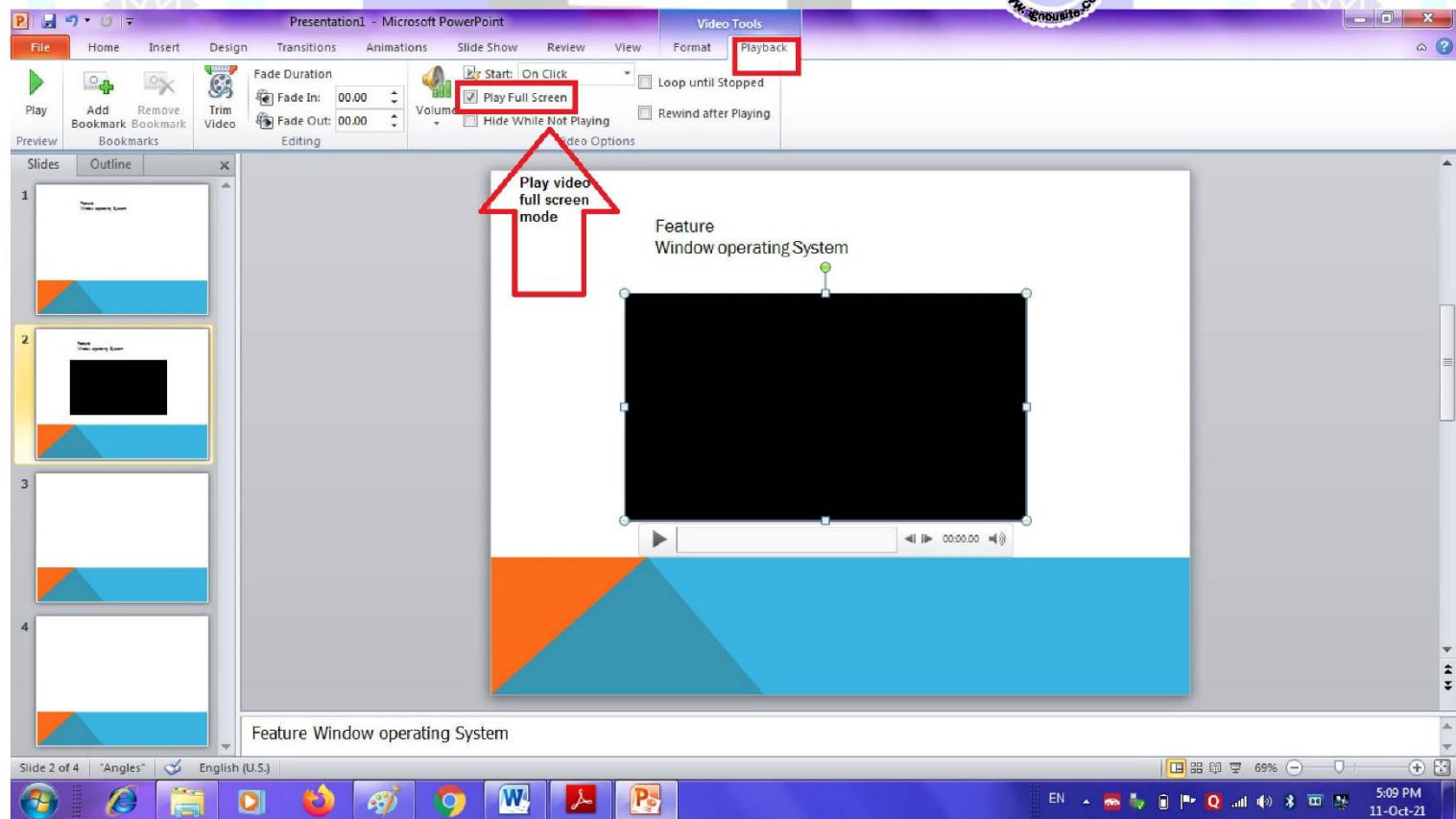
Step: 4 Select 'insert' option from menu bar and click on video option for add video clip.

A screenshot of Microsoft PowerPoint. The ribbon at the top has 'Insert' highlighted with a red box. Below the ribbon, the 'Video' icon in the 'Media' section is highlighted with a yellow box. A dropdown menu is open under the 'Video' icon, showing options: 'Video from File...', 'Video from Web Site...', and 'Clip Art Video...'. A large red arrow points upwards towards this dropdown menu.

Step: 5 Select slide 2 and insert heading and speaker notes for video clip.

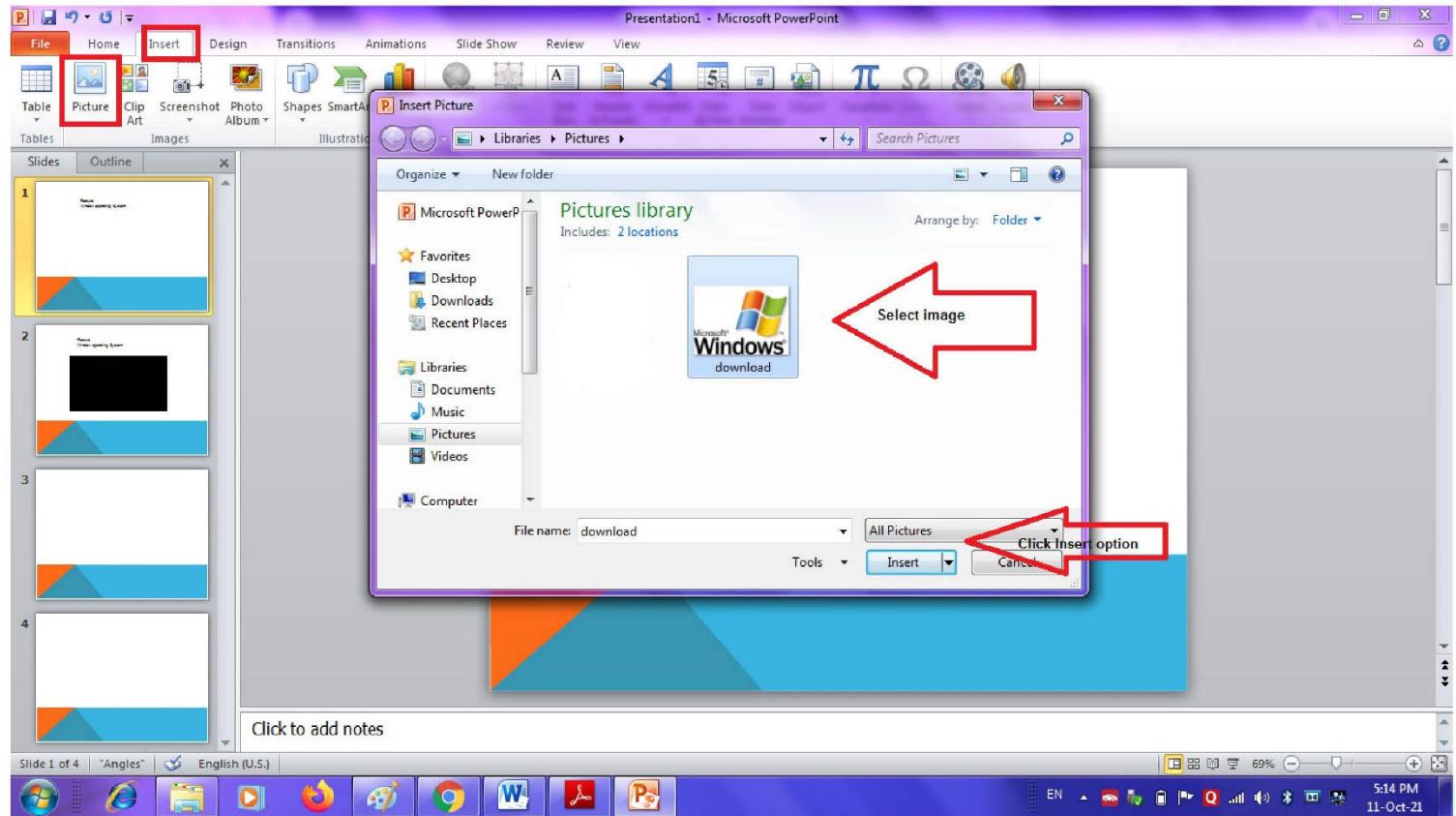


Step: 6. Select 'playback' from menu and click on 'play full screen' check box option.

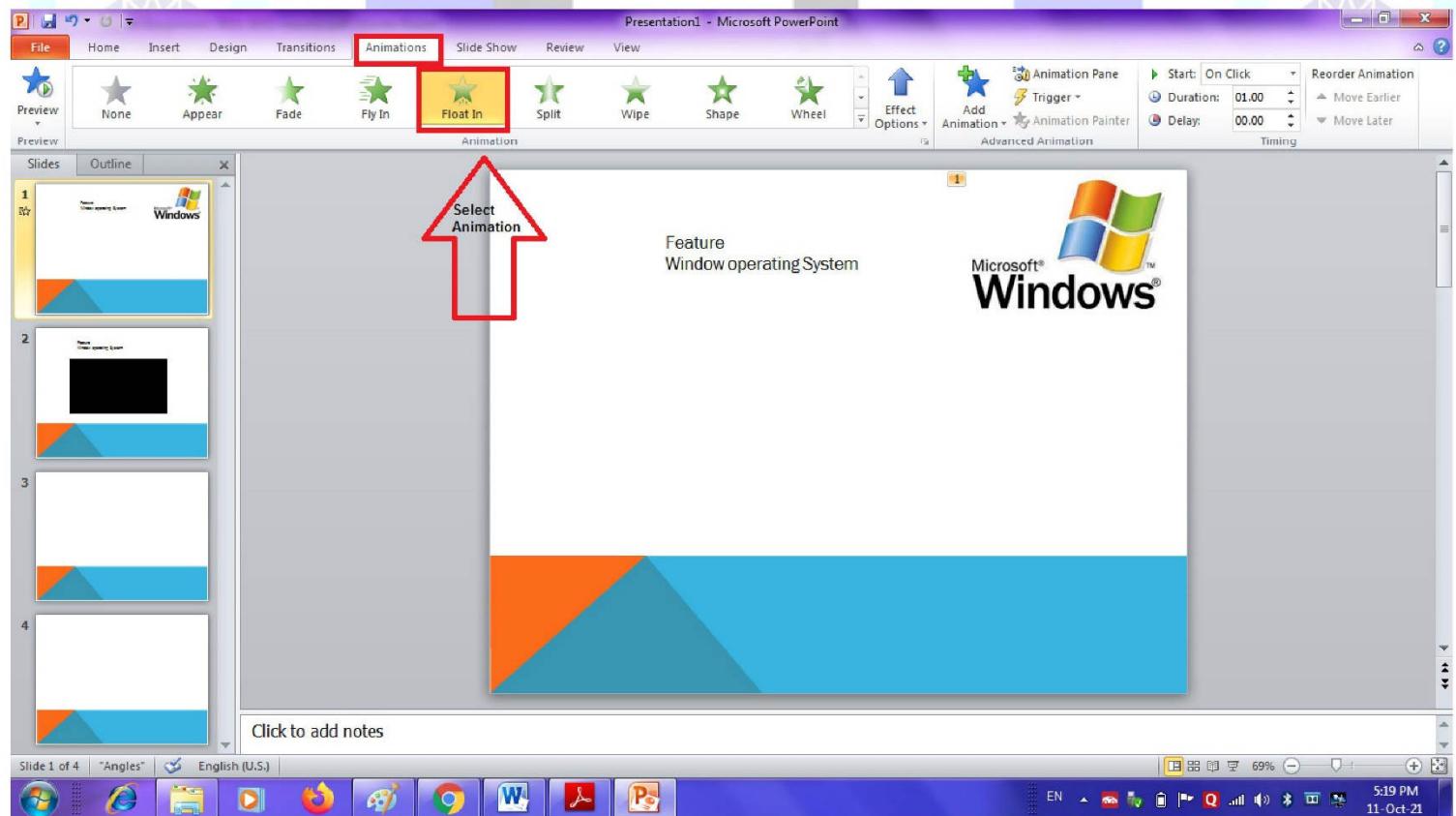


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Step: 7 Select 'insert' option from menu bar and insert picture in slide from picture option.



Step: 8 Select 'animations' for slide from menu bar.



Section 3: Word Processing

Q3. (a) Create multilevel month and week wise schedule for performing different academic tasks. Months should be numbered as A1.....to A12. Each month should be further broken into weeks numbered as W1...W4. For each week, academic activities such as attending counseling sessions, watching video lectures, etc., should be in numerical order(1,2,3...)

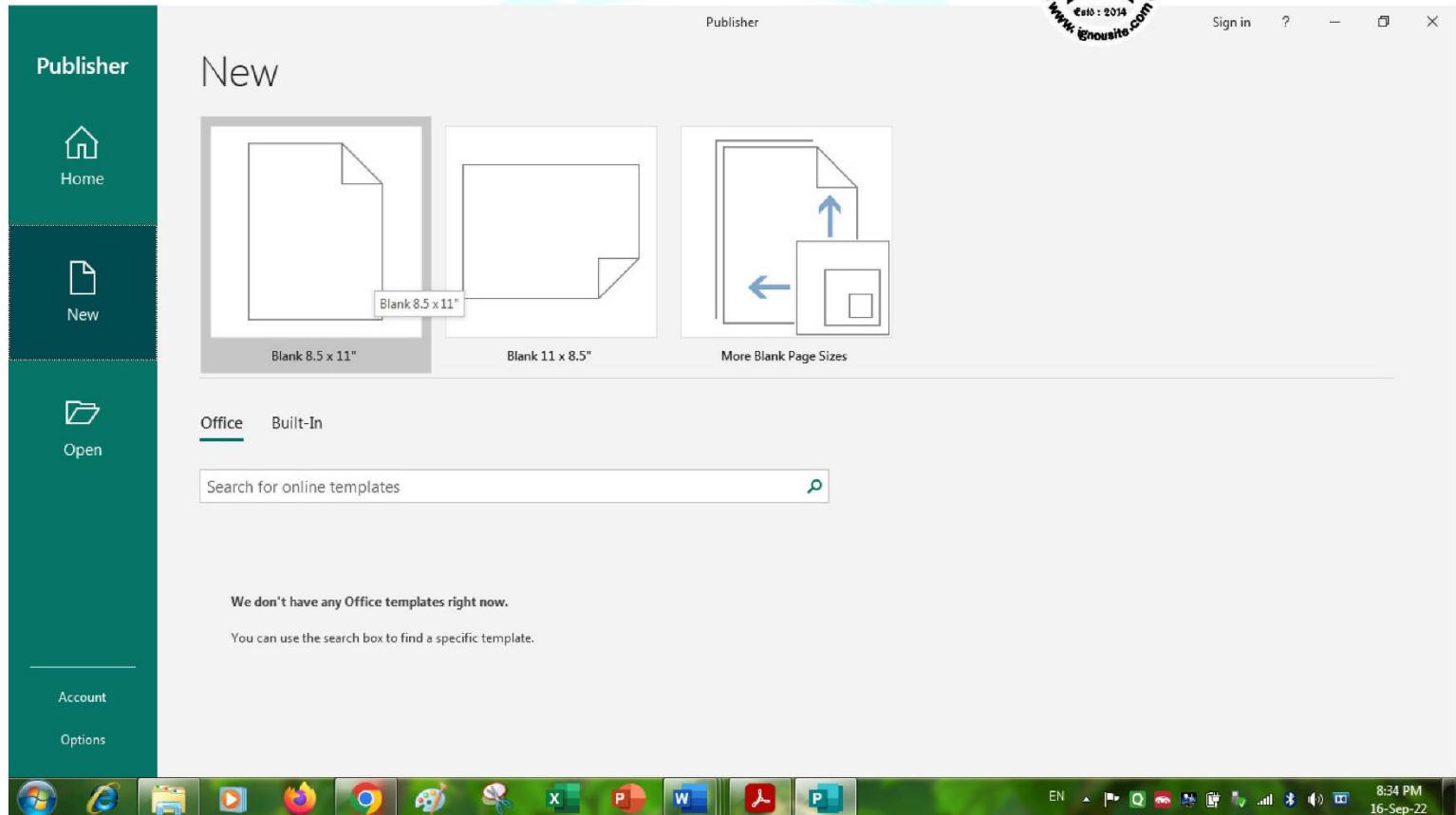
Ans.

Academic Activities						
Months	Weeks	1.Counselling	2.Video Lectures	3.Live Class	4. Mock test	5. Yoga
A1	W1	Attended	Attended	Attended	Attended	Attended
	W2	Attended	Attended	Attended	Not Attended	Attended
	W3	Attended	Not Attended	Attended	Attended	Attended
	W4	Not Attended	Attended	Not Attended	Attended	Not Attended
A2	W1	Attended	Attended	Attended	Attended	Attended
	W2	Attended	Attended	Attended	Not Attended	Attended
	W3	Not Attended	Not Attended	Attended	Attended	Not Attended
	W4	Attended	Attended	Not Attended	Attended	Attended
A3	W1	Attended	Attended	Attended	Attended	Attended
	W2	Attended	Not Attended	Attended	Attended	Attended
	W3	Attended	Attended	Attended	Not Attended	Not Attended
	W4	Attended	Attended	Attended	Attended	Attended
A4	W1	Not Attended	Attended	Attended	Attended	Attended
	W2	Attended	Attended	Not Attended	Attended	Attended
	W3	Attended	Not Attended	Attended	Attended	Attended
	W4	Not Attended	Attended	Attended	Attended	Attended
A5	W1	Attended	Attended	Not Attended	Attended	Attended
	W2	Attended	Attended	Attended	Attended	Not Attended
	W3	Attended	Attended	Attended	Attended	Attended
	W4	Attended	Attended	Not Attended	Attended	Not Attended
A6	W1	Not Attended	Attended	Attended	Attended	Attended
	W2	Attended	Attended	Not Attended	Attended	Attended
	W3	Attended	Attended	Attended	Attended	Attended
	W4	Attended	Not Attended	Attended	Attended	Attended
A7	W1	Attended	Not Attended	Attended	Not Attended	Attended
	W2	Attended	Attended	Attended	Attended	Not Attended
	W3	Not Attended	Attended	Attended	Attended	Attended
	W4	Attended	Attended	Not Attended	Attended	Attended
A8	W1	Attended	Not Attended	Attended	Attended	Attended
	W2	Attended	Attended	Attended	Attended	Attended
	W3	Attended	Attended	Attended	Attended	Not Attended
	W4	Not Attended	Attended	Attended	Not Attended	Attended
A9	W1	Attended	Attended	Attended	Attended	Attended
	W2	Attended	Not Attended	Attended	Attended	Attended
	W3	Attended	Attended	Not Attended	Attended	Not Attended
	W4	Not Attended	Attended	Attended	Attended	Attended
A10	W1	Attended	Attended	Not Attended	Attended	Attended
	W2	Attended	Not Attended	Attended	Attended	Attended
	W3	Attended	Attended	Not Attended	Attended	Not Attended
	W4	Attended	Attended	Attended	Attended	Attended
A11	W1	Attended	Attended	Attended	Not Attended	Attended
	W2	Not Attended	Attended	Attended	Attended	Not Attended
	W3	Not Attended	Attended	Attended	Attended	Attended
	W4	Attended	Not Attended	Not Attended	Attended	Attended
A12	W1	Attended	Attended	Attended	Not Attended	Attended
	W2	Attended	Not Attended	Attended	Attended	Attended
	W3	Attended	Attended	Attended	Attended	Not Attended
	W4	Attended	Attended	Not Attended	Attended	Attended

(b) Design a flyer for a COVID 19 vaccination campaign. Use different styles, sizes, fonts, colours and effects.

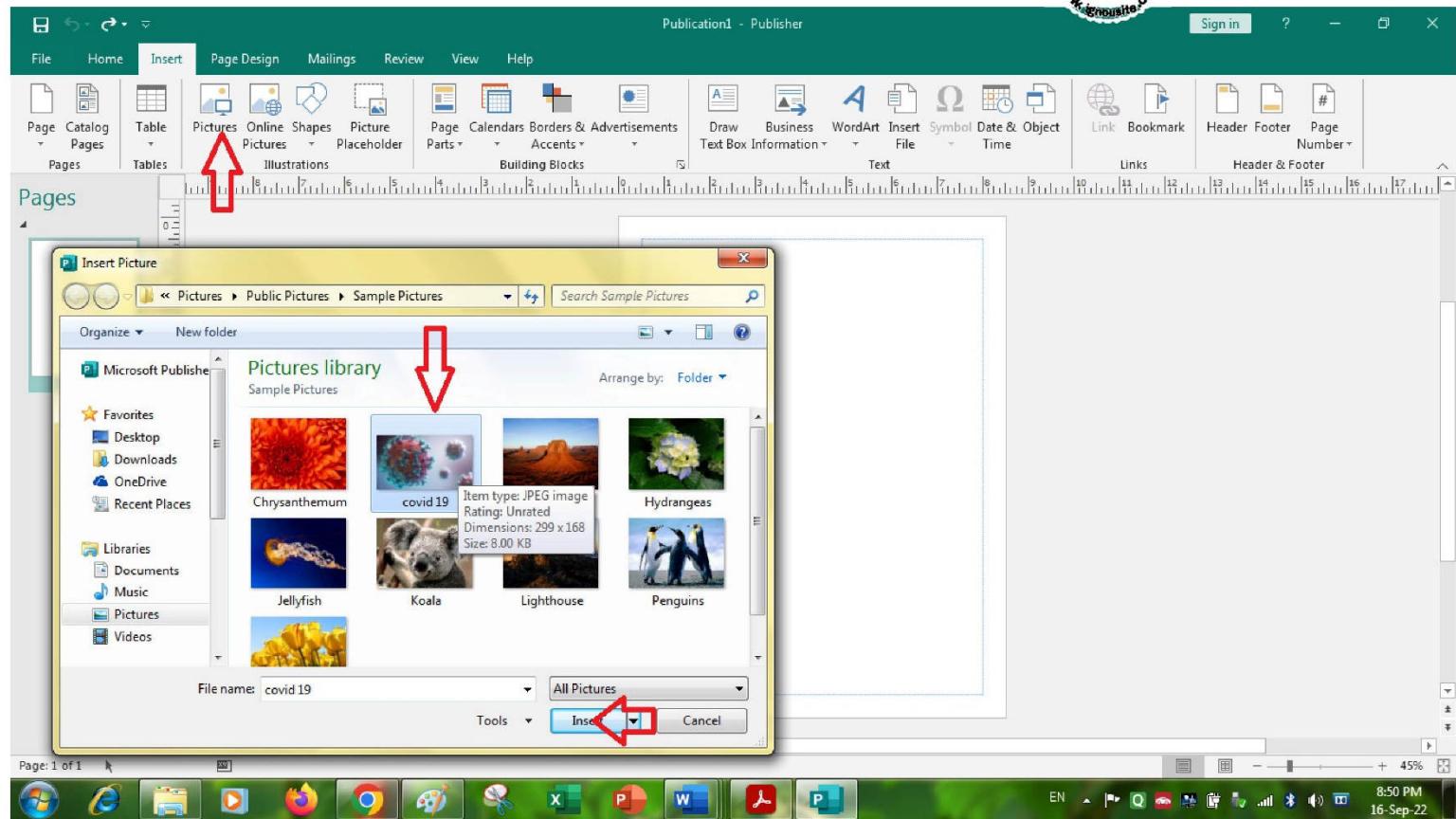
Ans. Step 1: Open Microsoft Office Publisher:

To open it, go to the start menu and on the search bar type 'Microsoft Office Publisher'. Small window will open to show search result, there you can see 'Microsoft Office Publisher'. Click on it to open and select 'new'.

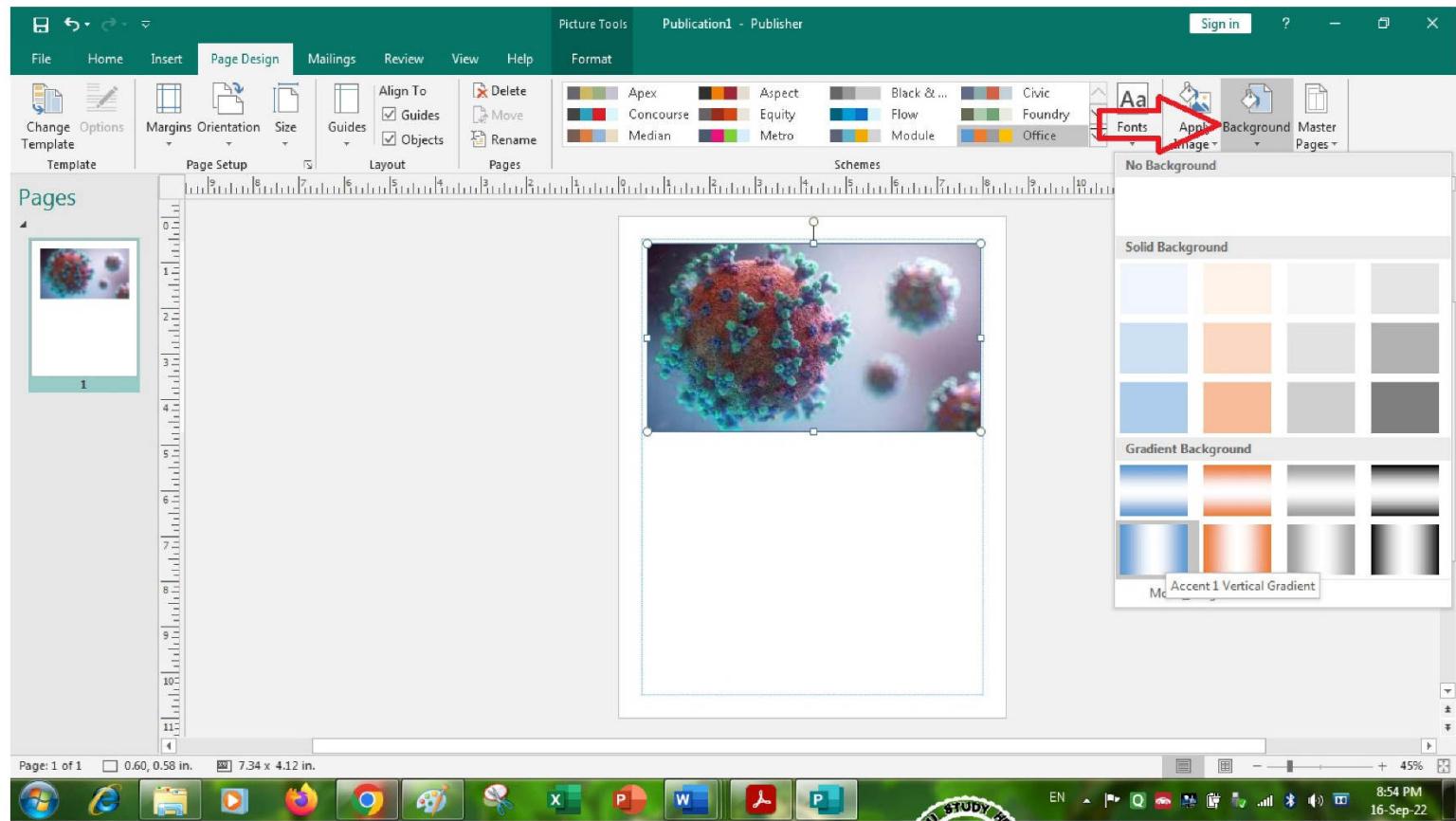


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Step: 2. Select COVID 19 picture from 'picture option' from menu and click on insert option.



Step: 3. Select 'background' from 'page Design' option from menu bar and change page style or color.



ESTD : 2014
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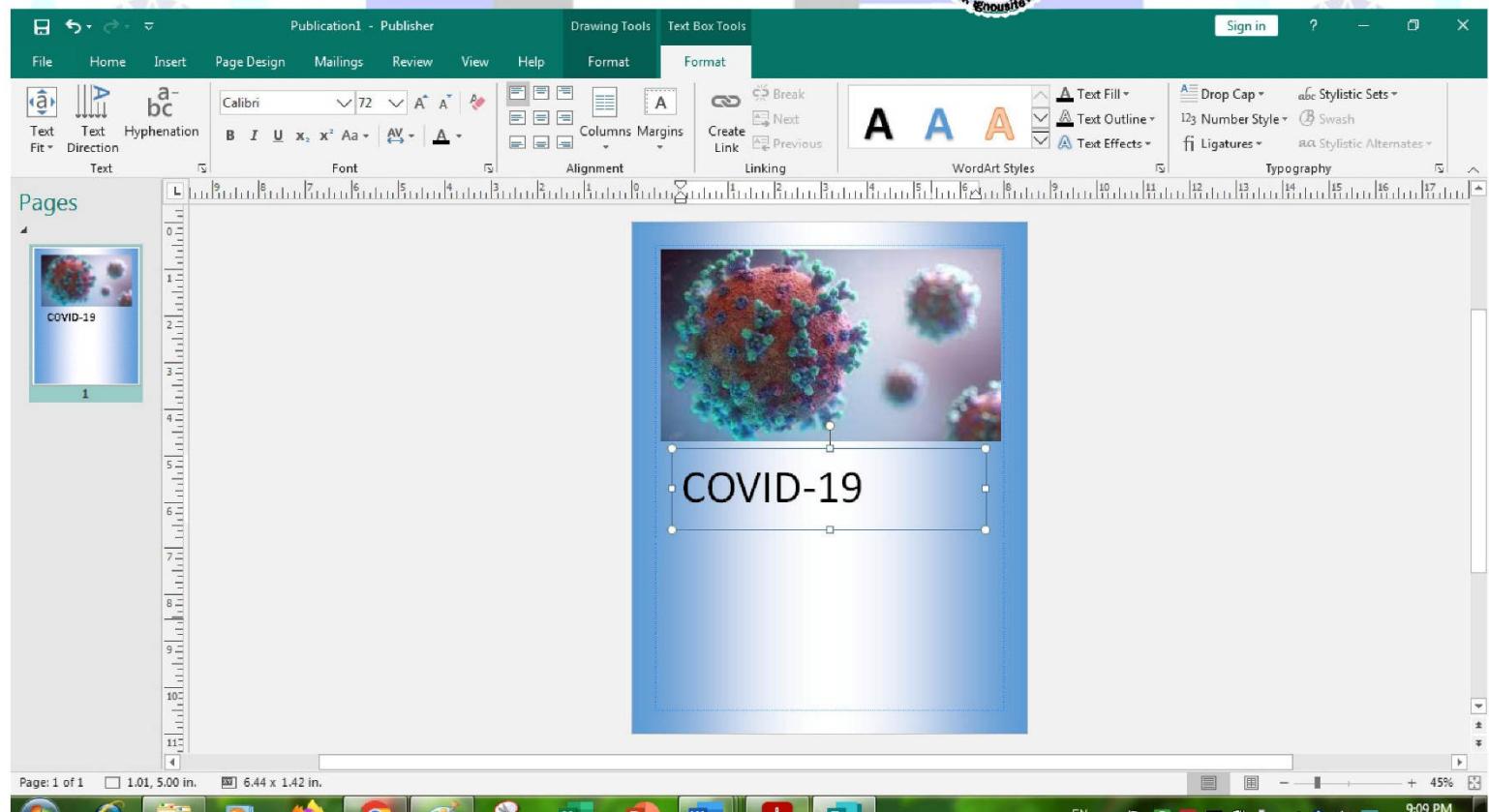
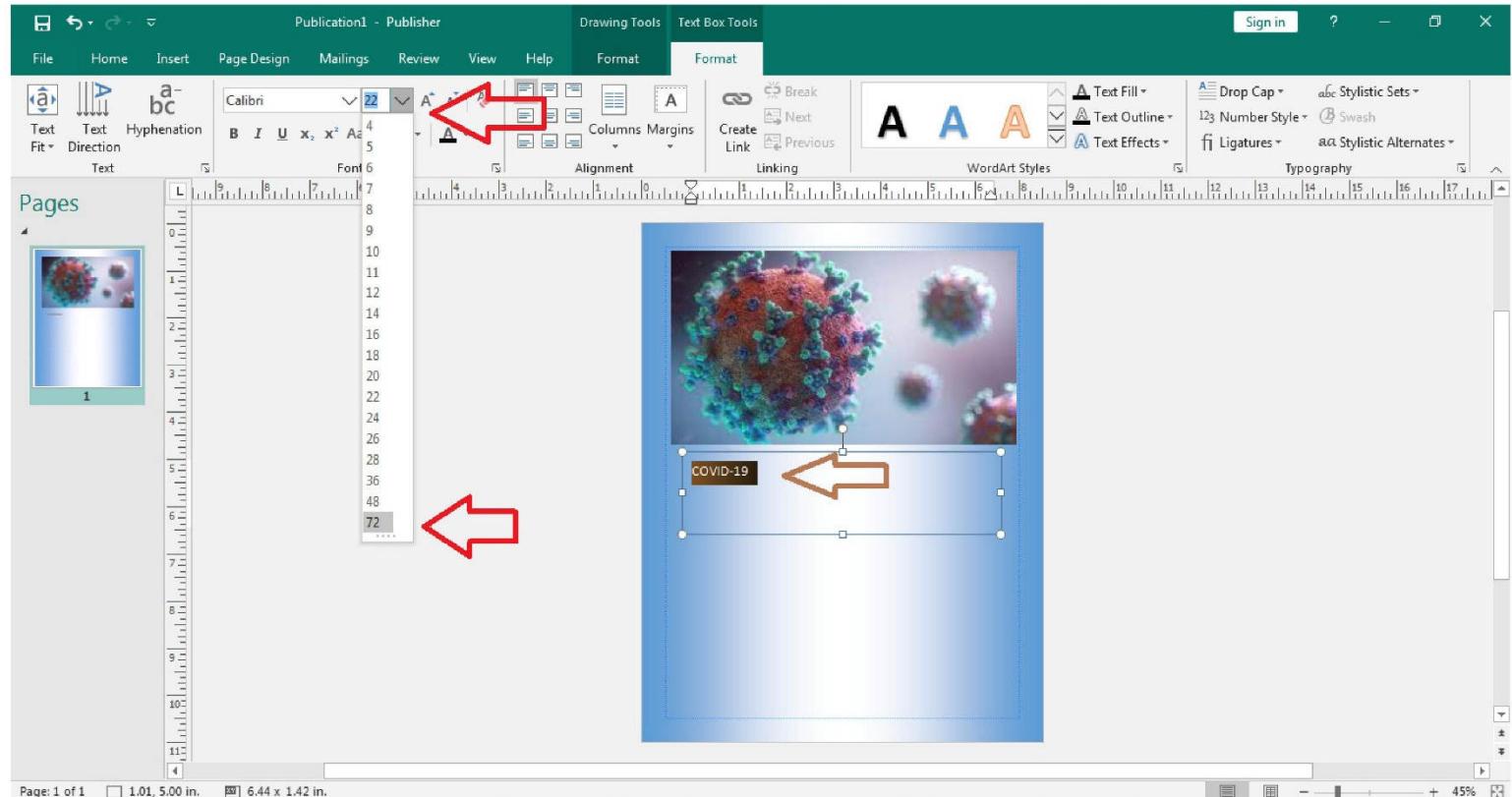
Step: 4 Select 'Draw Text Box' for type text from home option from menu bar.



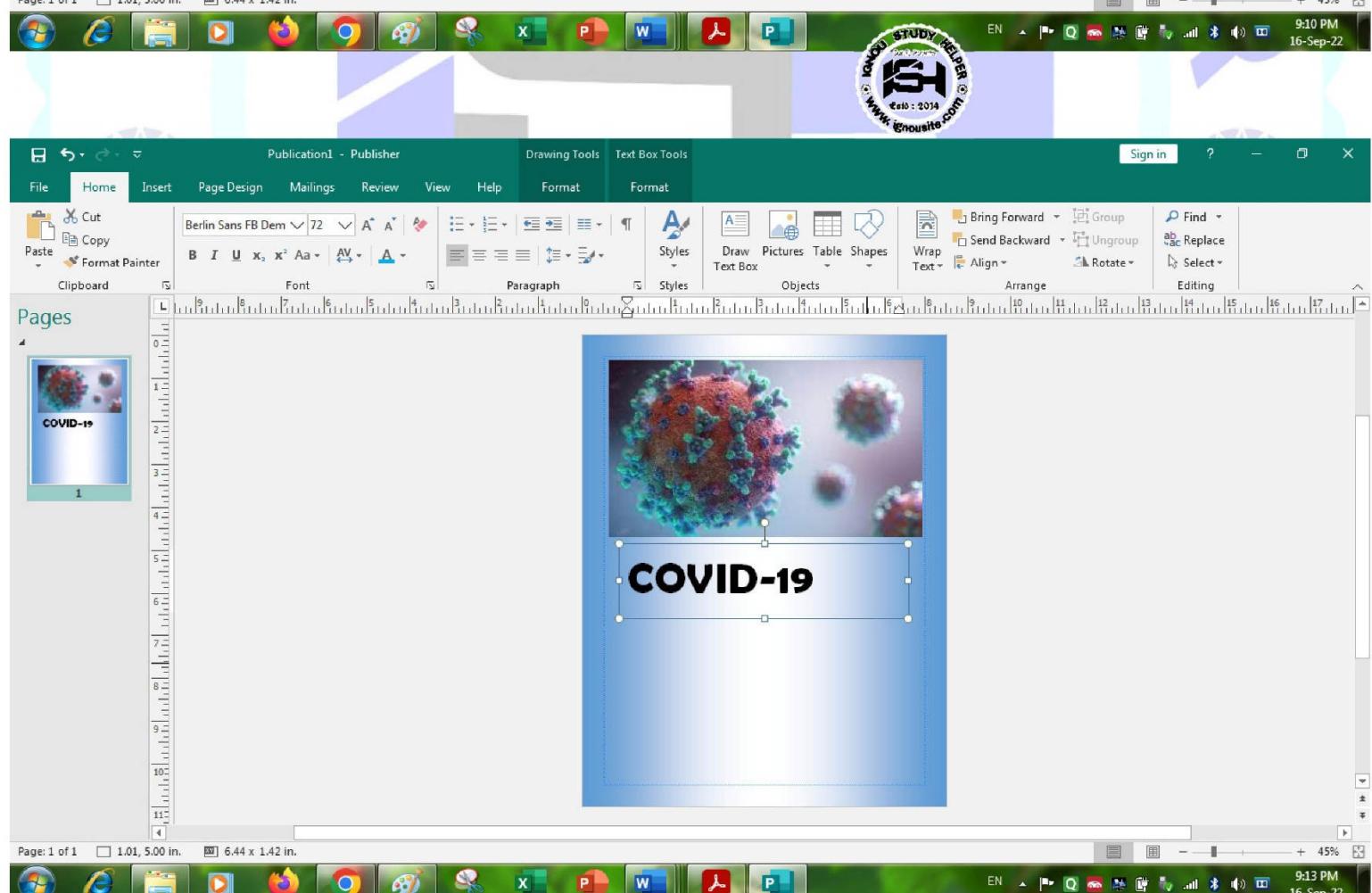
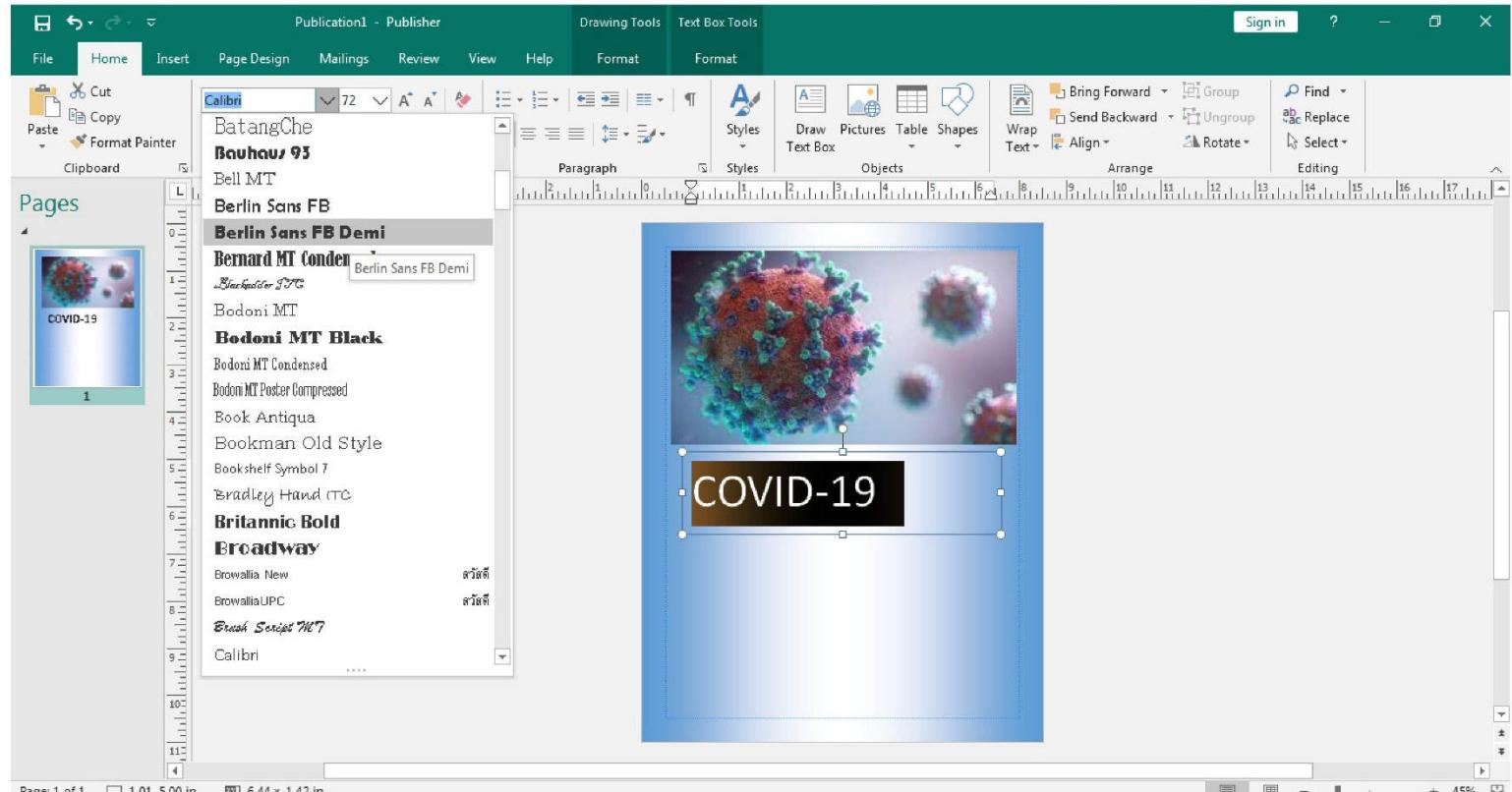
Screenshot of Microsoft Publisher showing the Home tab ribbon. A red box highlights the 'Styles' button in the ribbon. A tooltip window titled 'Draw a Text Box' says: 'Draw a text box anywhere.' Below it is a text box containing the text 'This is a great way to get the exact text box size you want, especially when adding text to shapes and objects.' A blue dashed rectangle surrounds a COVID-19 virus image on the page.

Screenshot of Microsoft Publisher showing the Format tab ribbon selected. The ribbon also includes Drawing Tools, Text Box Tools, and Format tabs. A red box highlights the 'Text' icon in the ribbon. A tooltip window titled 'Text' says: 'Text Fit' and 'Text Direction'. Below it is a text box containing the text 'COVID-19'. A blue dashed rectangle surrounds a COVID-19 virus image on the page.

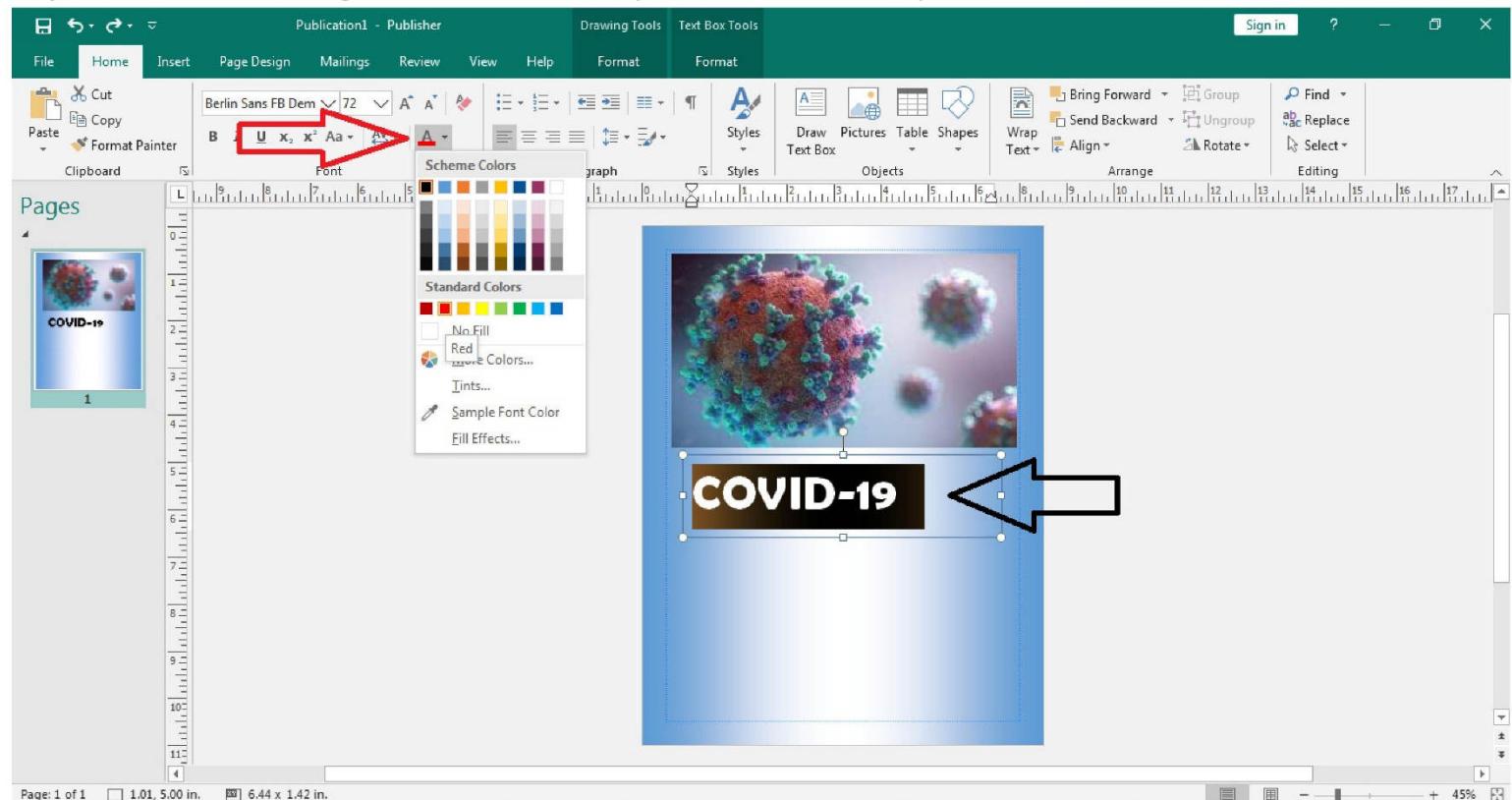
Step: 5. For 'Text' size change select text and select size from 'Format' option from menu bar.



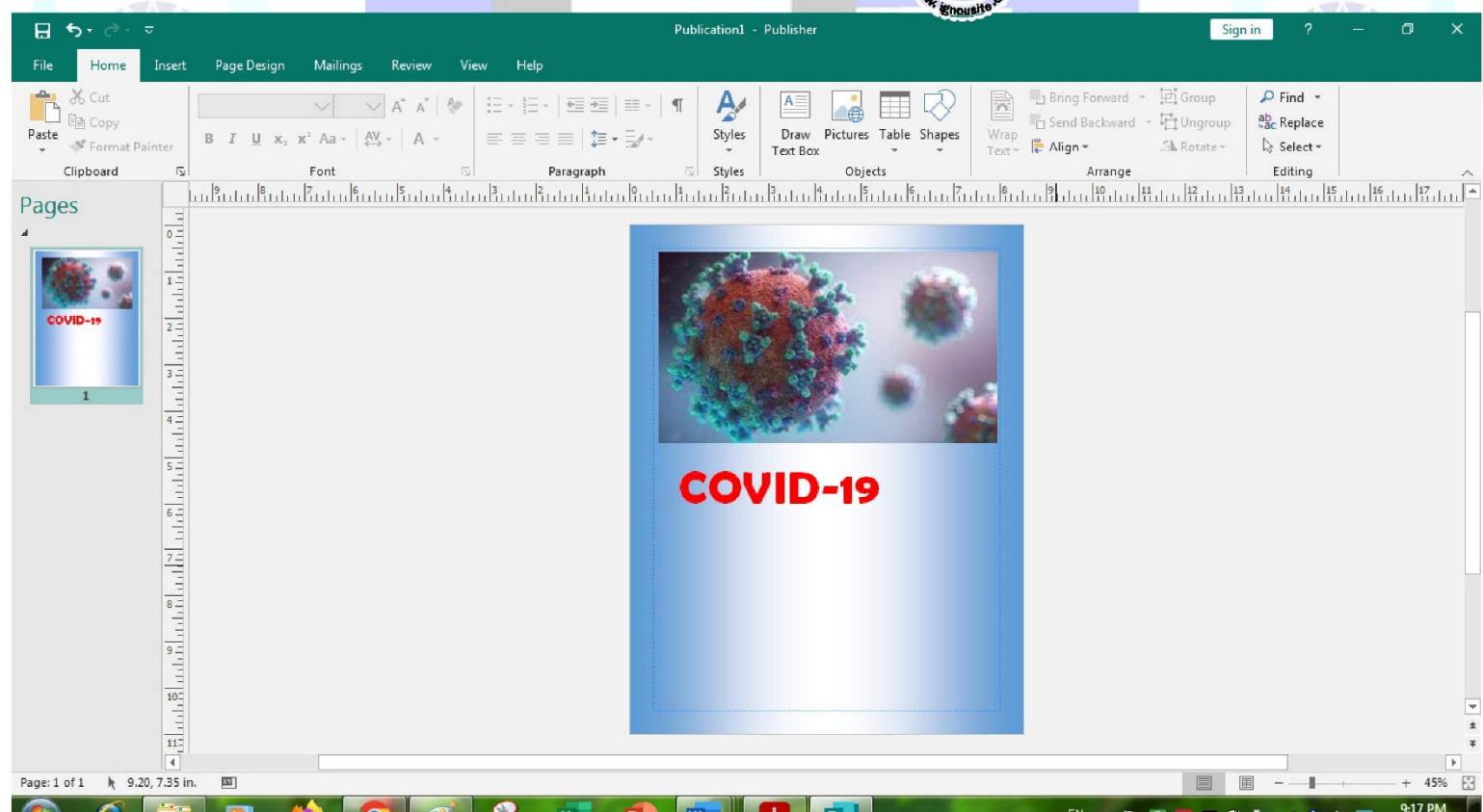
Step: 6. Change 'font of text' select text and click on 'Home' and select font your choice.



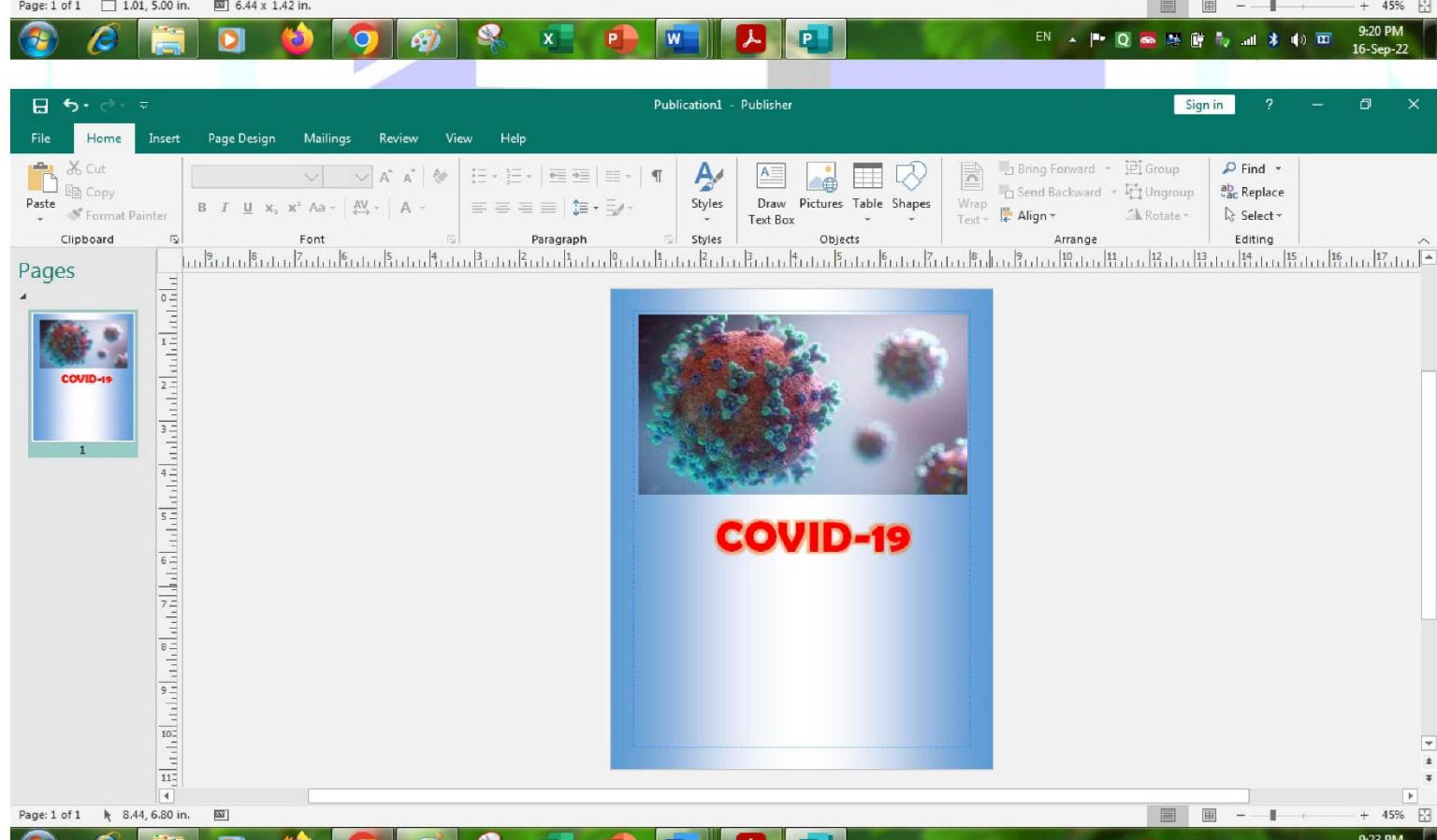
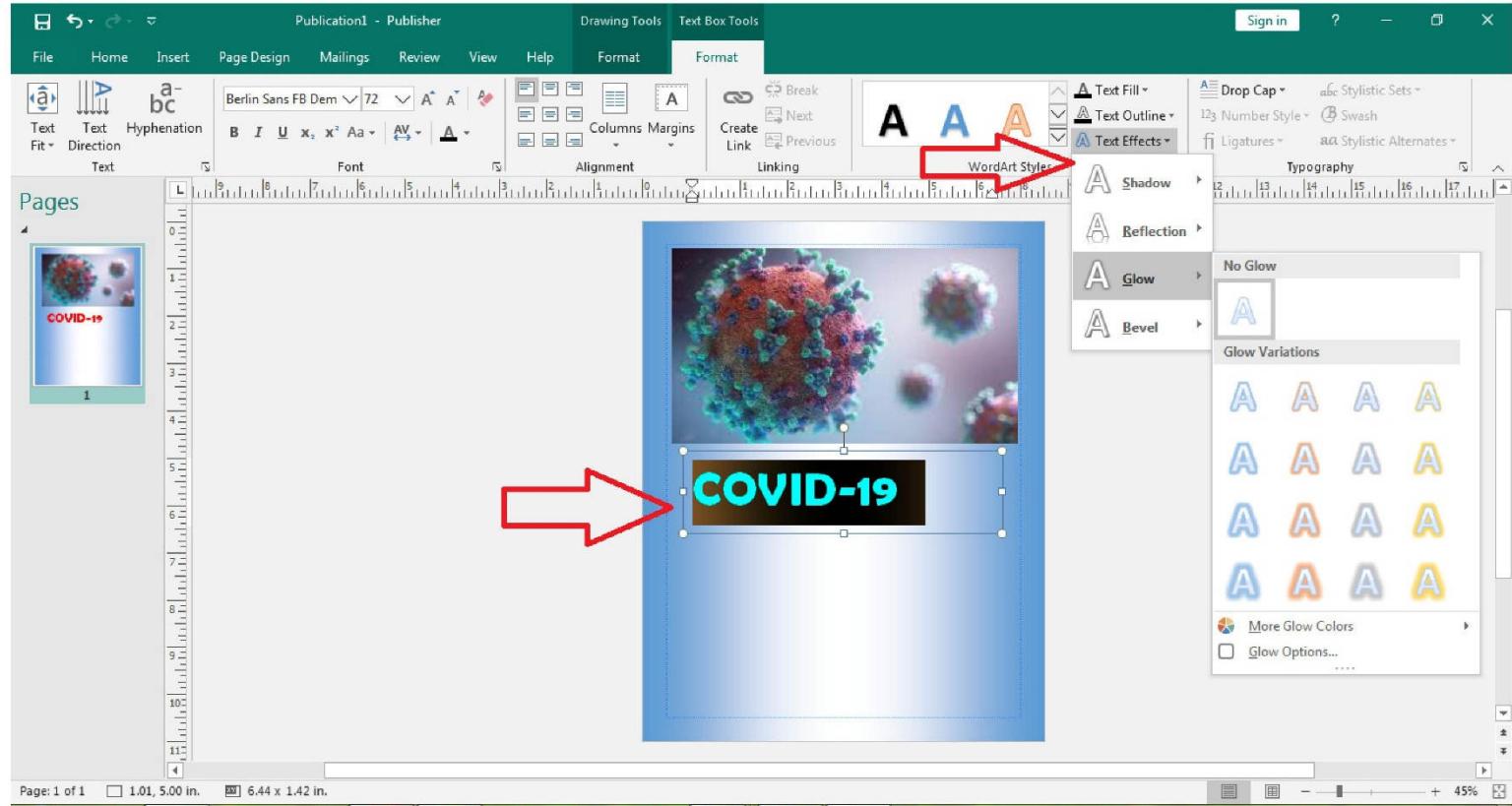
Step: 7. For 'text color' change select text and choose your color from 'home' option.



Page: 1 of 1 □ 1.01, 5.00 in. ■ 6.44 x 1.42 in. 9:15 PM 16-Sep-22



Step: 8. For 'text effect' select text and click on 'format' option in menu and select 'Text Effect' choose your choice.



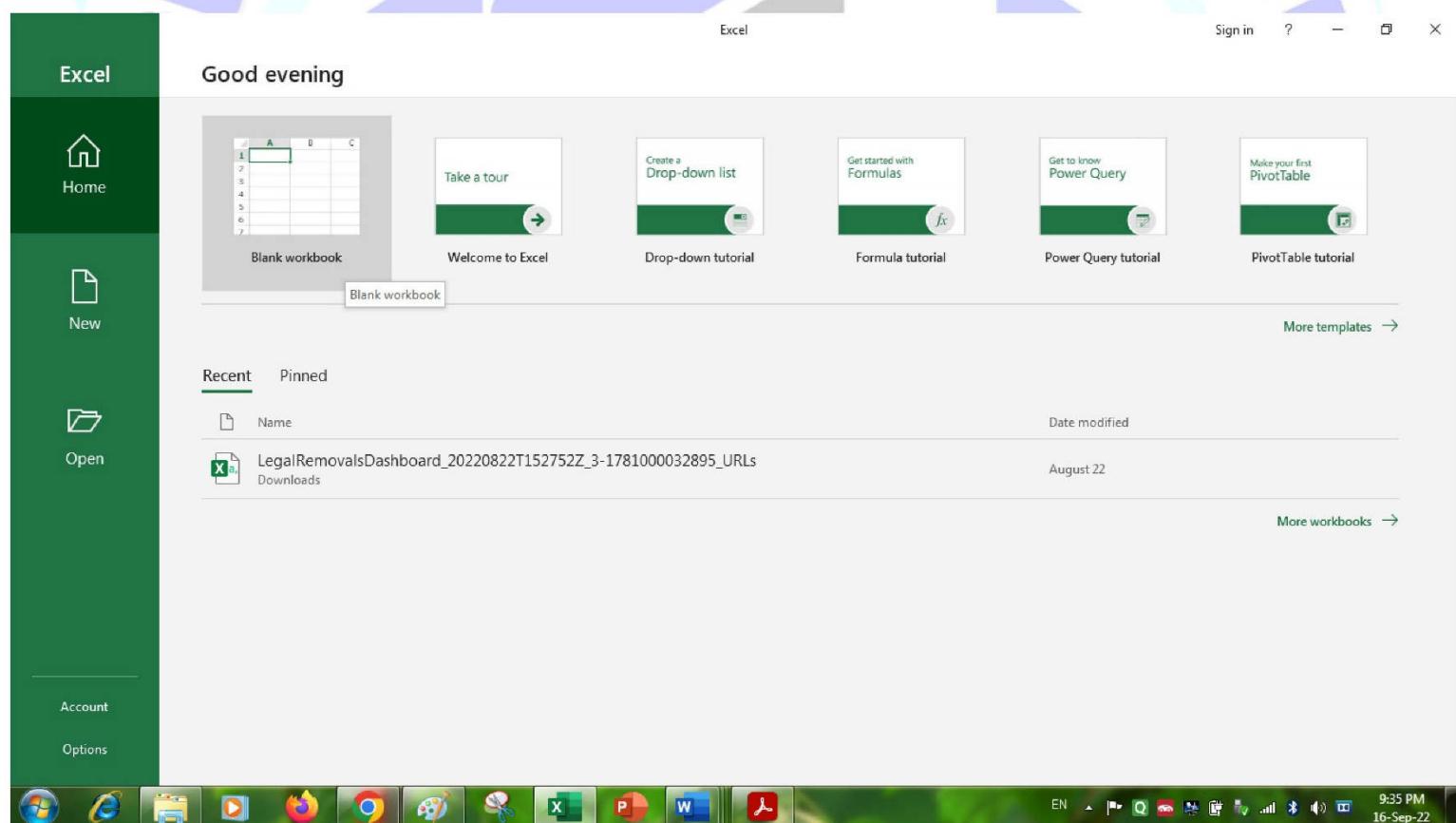
Step:9 That's Done.

Q4. Create a work sheet containing pricing information of a company which deals in sales of computers & computer peripheral. You are required to calculate discount, sales price (MRP-Discount) and profit margin (MRP-sales price)

Product	Product code	Manufacturing Cost	MRP	Discount (10%)	Profit margin
Computer	C-1	24000.00	27000.00	-	-
Laser printer	C-2	4000.00	6000.00		
Filing cabinet	C-3	6500.00	7000.00		
27 th monitor	C-4	2200.00	3000.00		
Mouse	C-5	430.00	500.00		

Ans.

Step: 1. Open a blank Excel Work book.



Step: 2. Creating table form my Assignment.

Book1 - Excel

	A	B	C	D	E	F	G	H	I	J	K	L
1	Product	Product Code	Manufacturing cost	MRP	Discount (10%)	Profit margin	G	H	I	J	K	L
2	Computer	C-1	24000	27000								
3	Laser printer	C-2	4000	6000								
4	Filing cabinet	C-3	6500	7000								
5	27th moniter	C-4	2200	3000								
6	Mouse	C-5	430	500								

Step: 3. Put Formula in Discount table.

Book1 - Excel

	A	B	C	D	E	F	G	H	I	J	K	L
1	Product	Product Code	Manufacturing cost	MRP	Discount (10%)	Profit margin	G	H	I	J	K	L
2	Computer	C-1	24000	27000	=10/100*D2							
3	Laser printer	C-2	4000	6000								
4	Filing cabinet	C-3	6500	7000								
5	27th moniter	C-4	2200	3000								
6	Mouse	C-5	430	500								

	A	B	C	D	E	F	G	H	I
1	Product	Product Code	Manufacturing cost	MRP	Discount (10%)	Profit margin			
2	Computer	C-1	24000	27000	2700				
3	Laser printer	C-2	4000	6000	600				
4	Filing cabinet	C-3	6500	7000	700				
5	27th moniter	C-4	2200	3000	300				
6	Mouse	C-5	430	500	50				
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Step: 4. Create table for sales price and put formula for it.

	A	B	C	D	E	F	G	H	I
1	Product	Product Code	Manufacturing cost	MRP	Discount (10%)	Sales Price	Profit margin		
2	Computer	C-1	24000	27000	2700	=D2-E2			
3	Laser printer	C-2	4000	6000	600				
4	Filing cabinet	C-3	6500	7000	700				
5	27th moniter	C-4	2200	3000	300				
6	Mouse	C-5	430	500	50				
7									
8									
9									
10									

Book1 - Excel

File Home Insert Page Layout Formulas Data Review View Help Acrobat Tell me what you want

Cut Copy Format Painter

Font Alignment Number

Clipboard

A B C D E F G H

	A	B	C	D	E	F	G	H
1	Product	Product Code	Manufacturing cost	MRP	Discount (10%)	Sales Price	Profit margin	
2	Computer	C-1	24000	27000	2700	24300		
3	Laser printer	C-2	4000	6000	600	5400		
4	Filing cabinet	C-3	6500	7000	700	6300		
5	27th moniter	C-4	2200	3000	300	2700		
6	Mouse	C-5	430	500	50	450		
7								
8								
9								
10								

Step: 5. Put Formula in Profit margin table.

Book1 - Excel

File Home Insert Page Layout Formulas Data Review View Help Acrobat Tell me what you want

Cut Copy Format Painter

Font Alignment Number

Clipboard

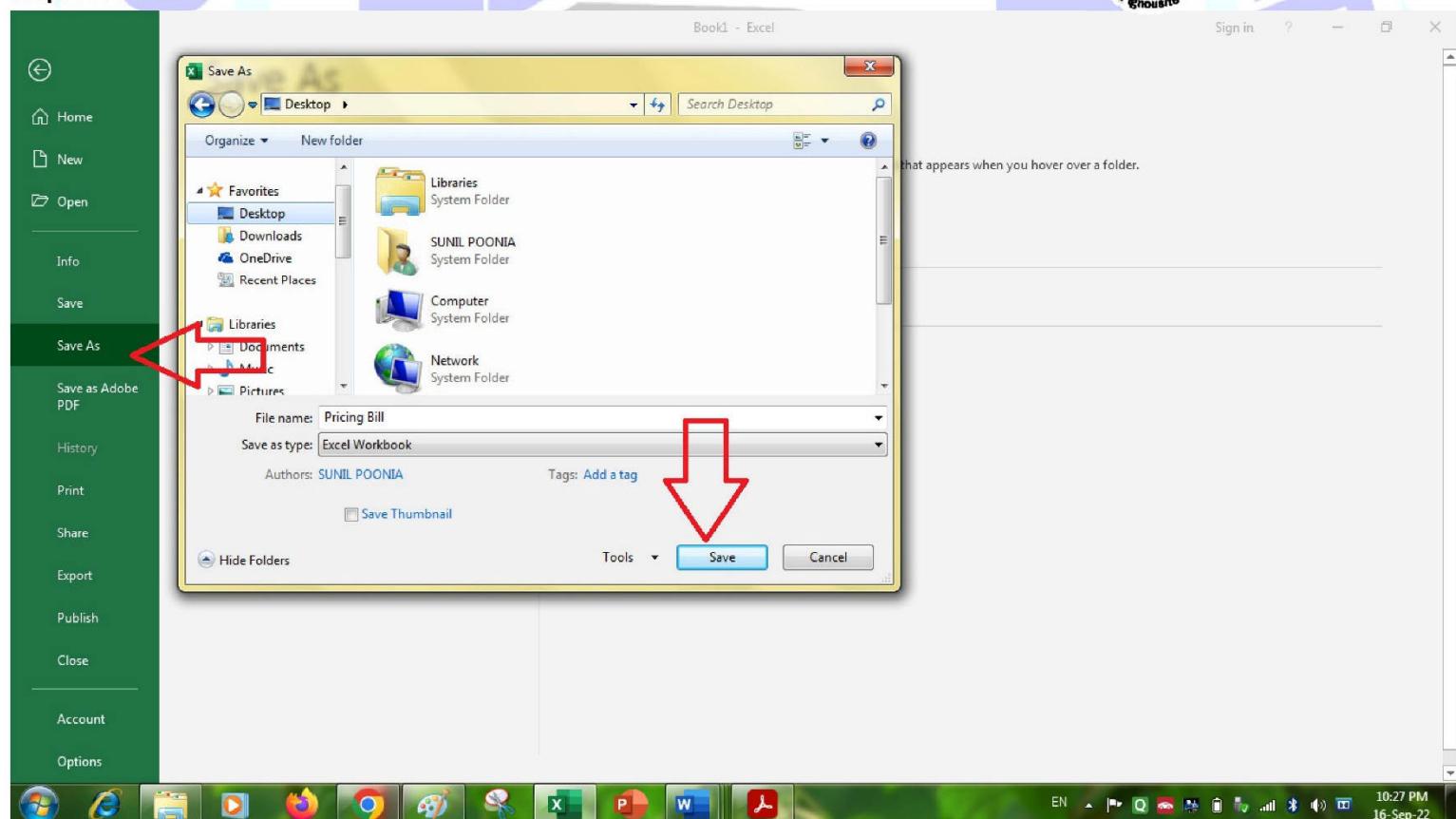
SUM =D2-F2

A B C D E F G H I

	A	B	C	D	E	F	G	H	I
1	Product	Product Code	Manufacturing cost	MRP	Discount (10%)	Sales Price	Profit margin		
2	Computer	C-1	24000	27000	2700	24300	=D2-F2		
3	Laser printer	C-2	4000	6000	600	5400			
4	Filing cabinet	C-3	6500	7000	700	6300			
5	27th moniter	C-4	2200	3000	300	2700			
6	Mouse	C-5	430	500	50	450			
7									
8									
9									
10									
11									

	A	B	C	D	E	F	G	H
1	Product	Product Code	Manufacturing cost	MRP	Discount (10%)	Sales Price	Profit margin	
2	Computer	C-1	24000	27000	2700	24300	2700	
3	Laser printer	C-2	4000	6000	600	5400	600	
4	Filing cabinet	C-3	6500	7000	700	6300	700	
5	27th moniter	C-4	2200	3000	300	2700	300	
6	Mouse	C-5	430	500	50	450	50	
7								
8								
9								

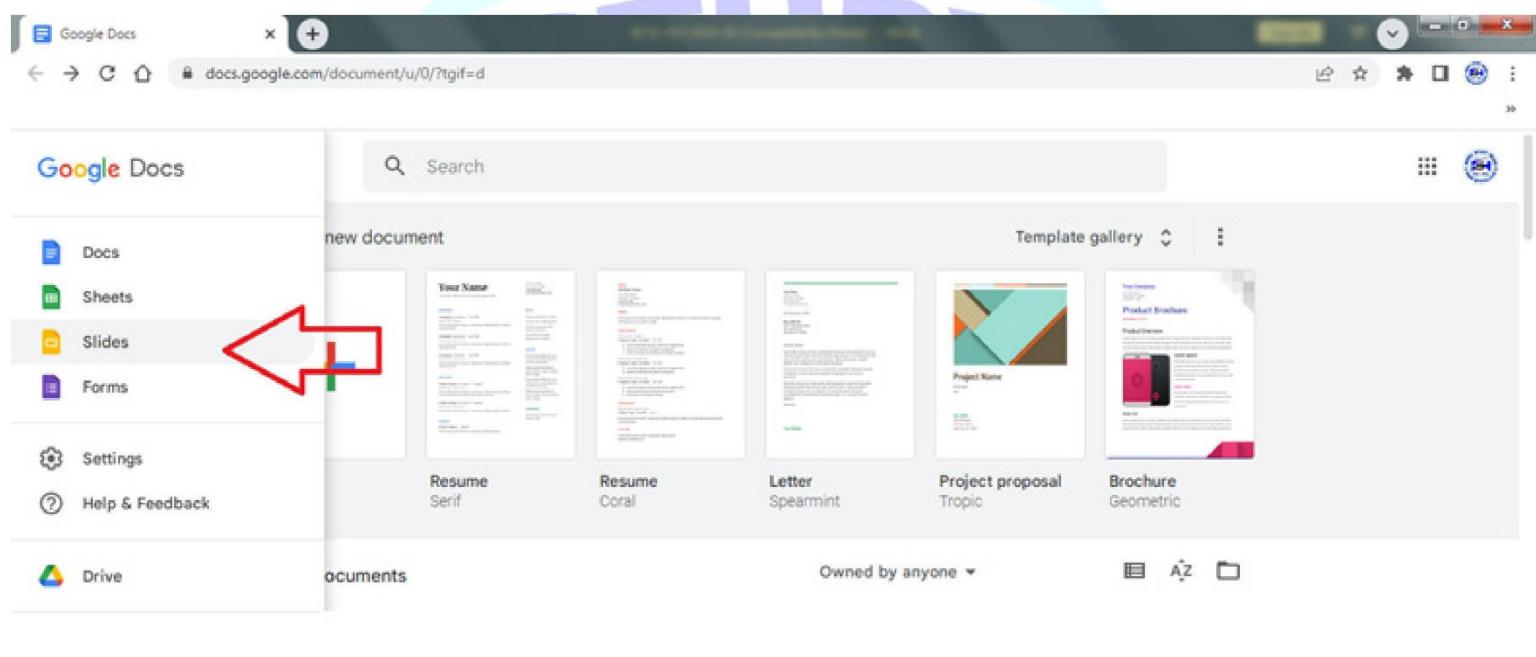
Step: 6. Save it.



Q.5 Collaborate online (in a group) on Google docs to create a presentation on 'Smart City Design'. All the group members should work on the presentation simultaneously from their respective machines. Use speaker notes for any online discussion and present a comprehensive report. (The report should comprise the latest amenities in the design of smart cities).

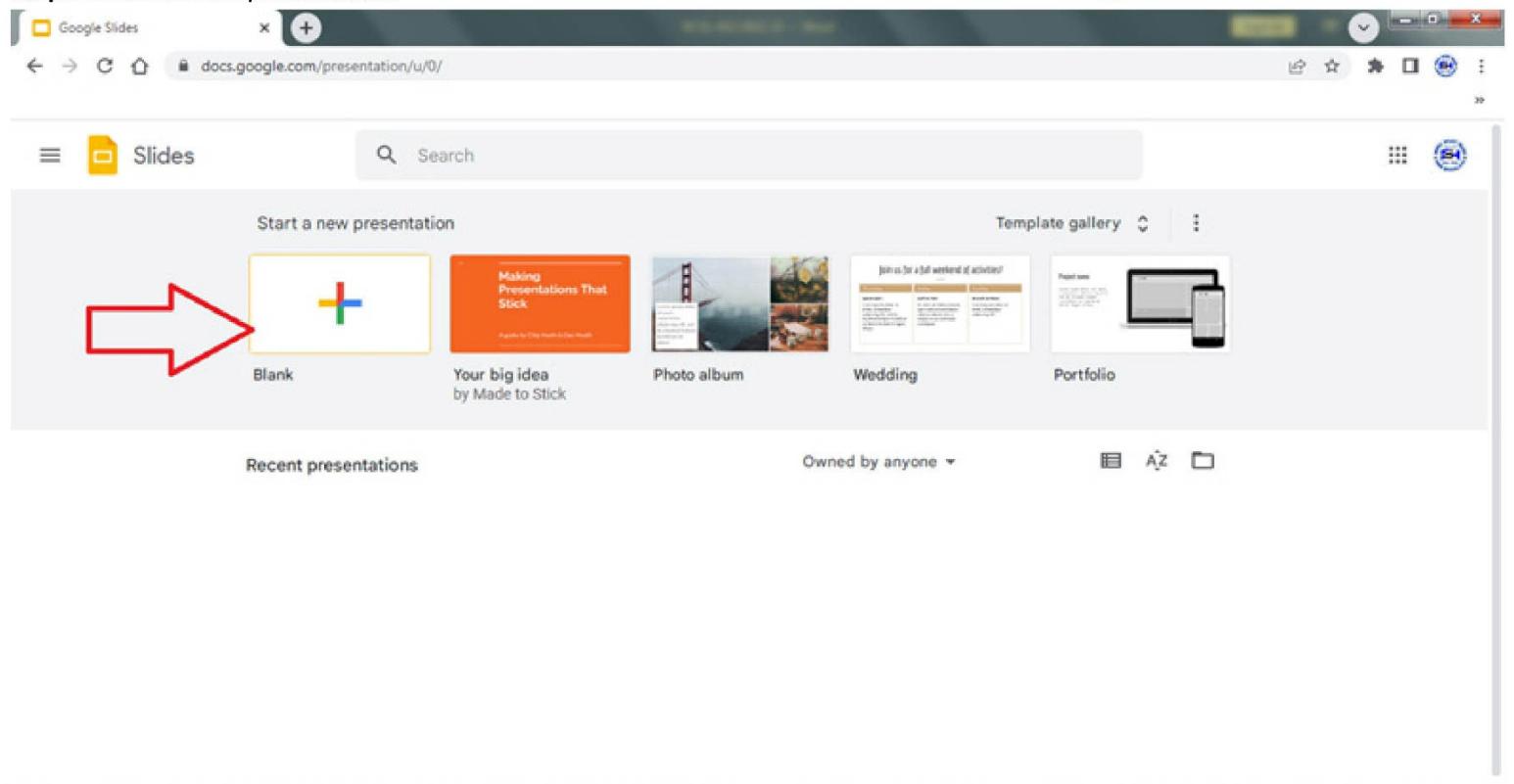
Ans.

Step: 1. Select 'Slides' from Google Docs.



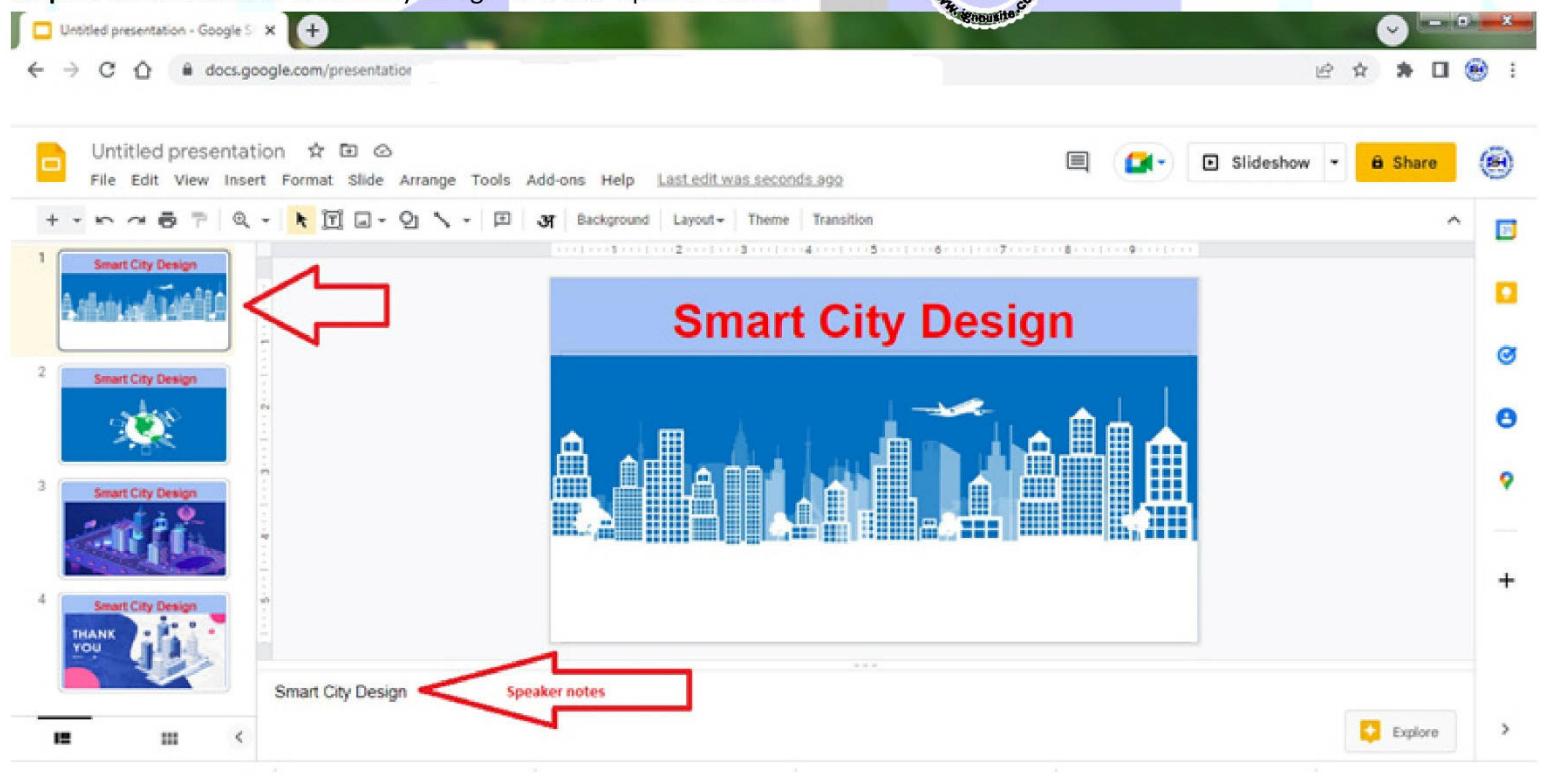
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Step: 2. Select blank presentation.



The screenshot shows the Google Slides interface. At the top, there's a search bar and a 'Template gallery' section. Below it, there are several presentation options: 'Blank' (highlighted with a large red arrow), 'Making Presentations That Stick' by Made to Stick, 'Photo album', 'Wedding', and 'Portfolio'. A 'Recent presentations' section follows, along with filters for 'Owned by anyone'. The taskbar at the bottom includes icons for various Windows applications like Internet Explorer, Firefox, and Microsoft Office.

Step: 3. Create Slide on 'Smart City Design' and add 'Speaker Notes'.



The screenshot shows a Google Slides presentation titled 'Untitled presentation'. The main slide features the title 'Smart City Design' over a blue cityscape background. On the left, a slide thumbnails pane shows four slides, all titled 'Smart City Design'. A red arrow points from the text 'Step: 3. Create Slide on \'Smart City Design\' and add \'Speaker Notes\'.' to the 'Speaker notes' section at the bottom of the slide. The taskbar at the bottom includes icons for various Windows applications like Internet Explorer, Firefox, and Microsoft Office.

A screenshot of a Google Slides presentation titled "Smart City Design". The main slide features a blue and pink abstract background with a 3D city model in the foreground. The title "Smart City Design" is at the top in red, and a large "THANK YOU" is in the center. Below it, it says "24Slides". The presentation has four slides in total, all titled "Smart City Design". The status bar at the bottom shows "Smart City Design". The taskbar at the bottom includes icons for various Microsoft Office applications.

Step: 4. After create of all the presentation, save with document name and share it.

A screenshot of the same Google Slides presentation from the previous step. A red arrow points to the "Slideshow" button in the toolbar. The presentation structure remains the same: four slides, all titled "Smart City Design". The main slide's design is identical to the first one. The status bar at the bottom shows "Smart City Design". The taskbar at the bottom includes icons for various Microsoft Office applications.

Untitled presentation

File Edit View Insert Format Slide Arrange Tools Add-ons Help Last edit was 4 minutes ago

Smart City Design

Name before sharing

Give your untitled document a name before it's shared:

Smart City Design

Skip Save

Smart City Design

Explore

Step: 5. Choose your friend in group and send it presentation.

Smart City Design

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Share "Smart City Design"

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Jaipal Pilania Sunil Jangir

Notify people

Message

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