COURSE-EPC-3 (1.4 EPC3)

CRITICAL UNDERSTANDING OF ICT

Engagement with Field

PR&CTICUM-01

TOPIC-01

INSTALLATION OF OPERATING SYSTEMS (WINDOWS-7)

Presented By:-NAME OF THE STUDENT TEACHER Registration No:Roll No:-

NAME OF THE INSTITUTE:-PURNADISHA JOYCHANDI TEACHER TRAINING COLLEGE

Session:-2023-2025

Preparing and Installing Operating System



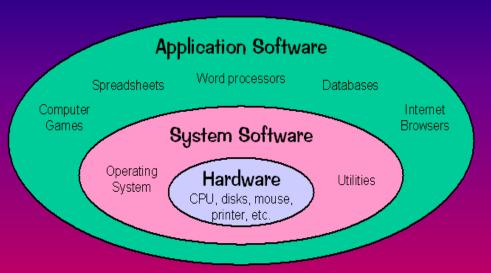
OBJECTIVES

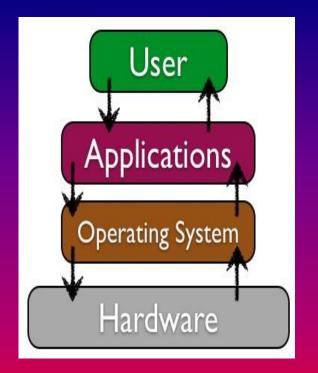
- ☐ To understand the process of installing an operating system (Windows).
- ☐ To gain practical skills in installing and configuring essential software.
- ☐ To learn how to install utilities that enhance the usability of a computer.
- ☐ To develop confidence in handling basic ICT-related tasks independently.

Contents

- 1. Introduction about operating system.
- 2.Minimum requirement for Windows 7 operating system.
- 3. Procedure to install Window 7 operating system.
- 4. Basic Applications needed to be installed.

The Operating System

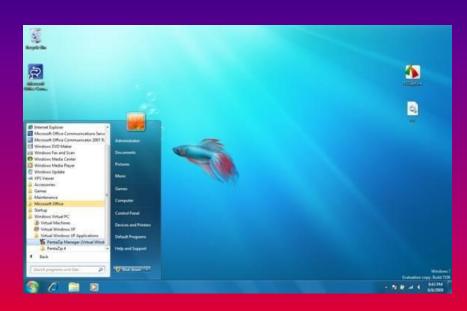




☐ The Operating System provides for the user to utilize the functions of a computer by managing the hardware and software in it. The image Above depicts how the system software and application software interact with the hardware.

OPERATING SYSTEM

Modern Operating System uses Graphical User Interface or GUI (pronounced as gooey). GUI lets us use the mouse to click icons, buttons, and menus. Everything is clearly displayed on the screen using combination of graphics and text.



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What is the Booting

- 1. When the user powers up the computer the CPU (Central Processing Unit) activates the BIOS (Basic Input Output System).
- 2.The first program activated is POST (Power On Self-Test). Using the CMOS (Complementary Metal Oxide Semiconductor) memory this checks all the hardware and confirms that all are functioning properly.
- 3.After that it reads the MBR (Master Boot Record) in boot drive in accordance with the firmware 'bootstrap loader' which is Provided by the computer manufacturer.
- 4.Then the computer loads in the Operating System in boot drive to the RAM (Random Access Memory). This whole process is called booting which means that an Operating System is loaded into the RAM (main memory)



Minimum System Requirements for

Part	Minimum Requirement
Processor (CPU)	1 GHz or faster CPU
Memory (RAM)	1 GB RAM (32-bit) or 2 GB RAM (64-bit)
Hard drive free space	16 GB available disk space (32-bit) or 20 GB (64-bit)
Disc drive	DVD drive
Grap hics	128 MB or more
mem	
ory	

][

How to prepare your installer and program

1st - Check your system requirements

Confirm that your computer meets the minimum system requirements for that product.

Note: If you're running Windows, make sure to download/install the version that matches your operating system (32-bit or 64-bit).

2nd – Make sure about legitimacy

In some operating system activation is usually automatic. However, if you are

prompted for your serial number and product key before you can run the product, you can find the information you need in your CD case or package.

NOTE: Product key and serial number is important so make sure you that you keep it.

How to Install Windows 7 operating system step by step procedure.

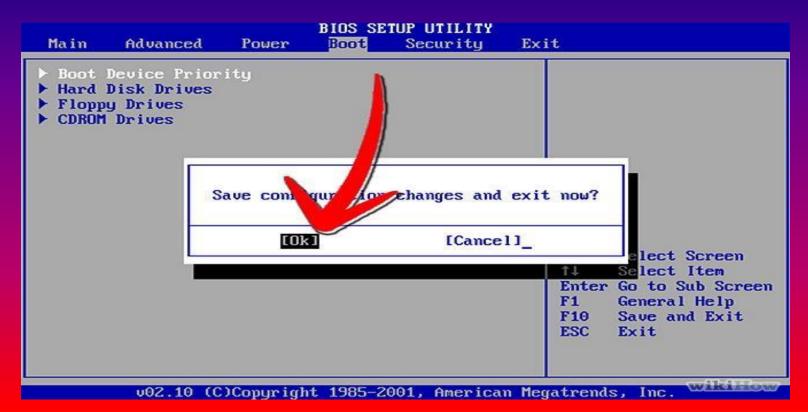
Operating system boot by

- 1.Flash Drive (Bootable Pen Drive)
- 2. Bootable CD/DVD
- 3.Hard Disk

Turn your computer on and then press Del or F2 (depend on your computer's mainboard) to enter the system BIOS

Boot Device Priority [CDROM:P2-ATAPI iHA] 1st Boot Device (HDD:PO-SAMSUNG HD2) 2nd Boot Device Removable Dev.1 3rd Boot Device wikiHow

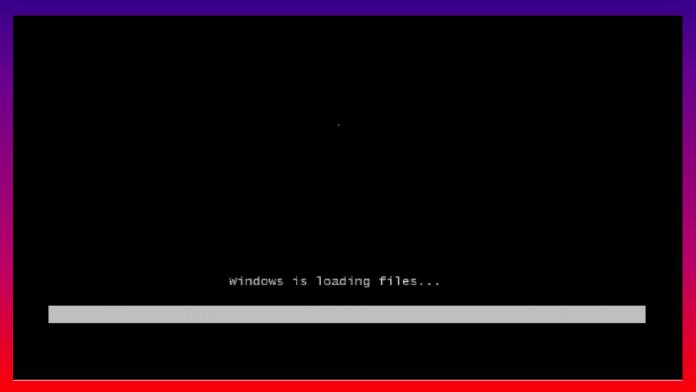
Go to Boot menu and choose Boot From CD/DVD.



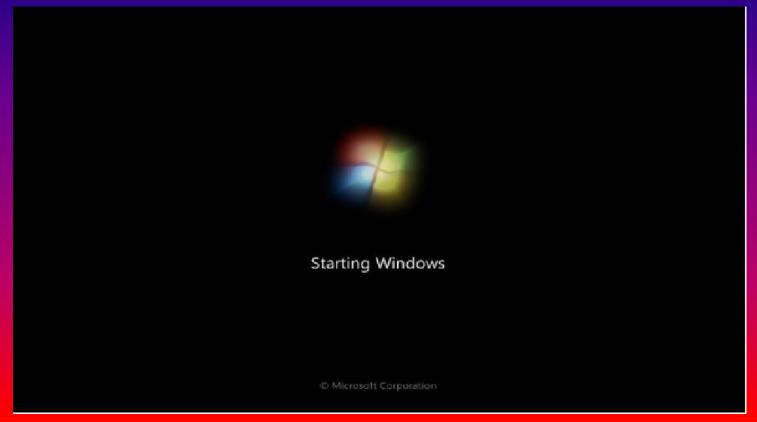
Load your Windows 7 DVD and boot it. It will now load the setup files.

```
Press any key to boot from CD or DVD.
```

Loading process



BOOTING PROCESS IS IN PROGRESS



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SELECT YOUR LANGUAGE, TIME & CURRENCYFORMAT, KEYBOARD OR INPUT METHOD AND CLICK **NEXT**.

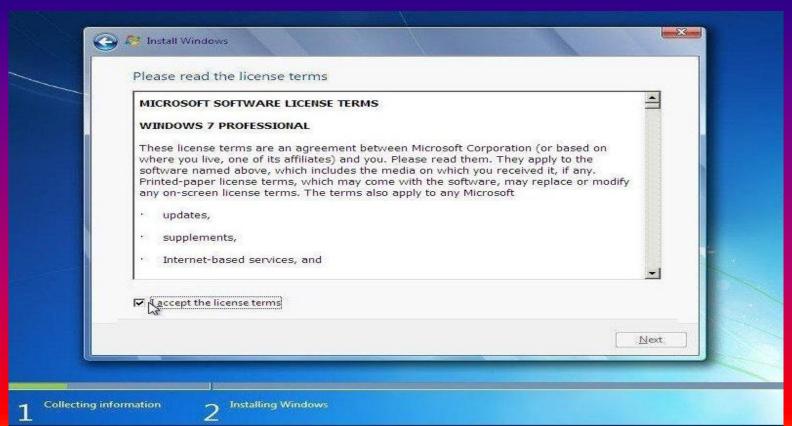


CLICK INSTALLNOW.

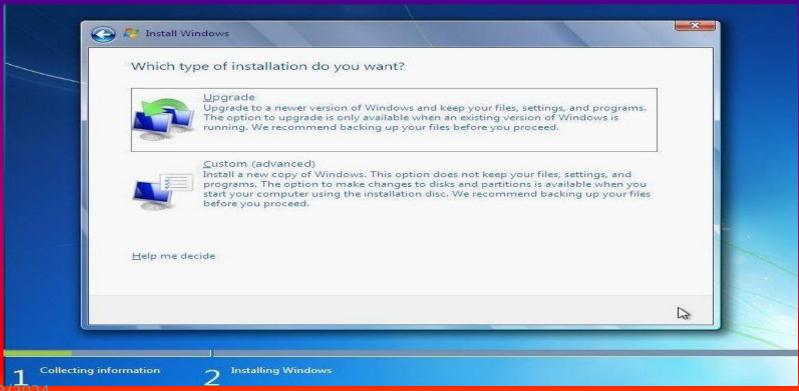




Check I accept the license terms and click Next.

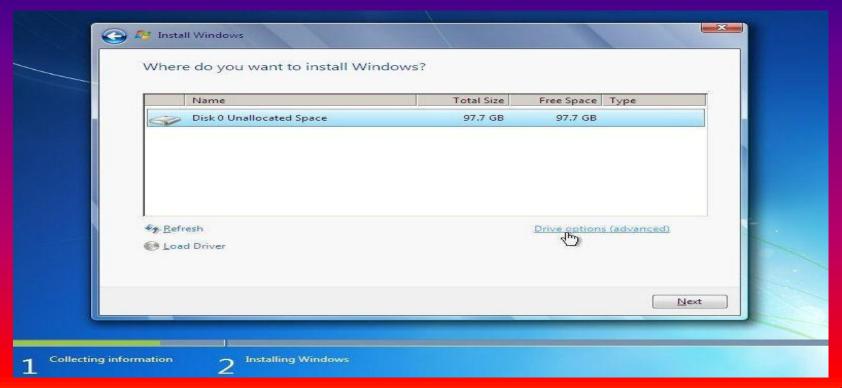


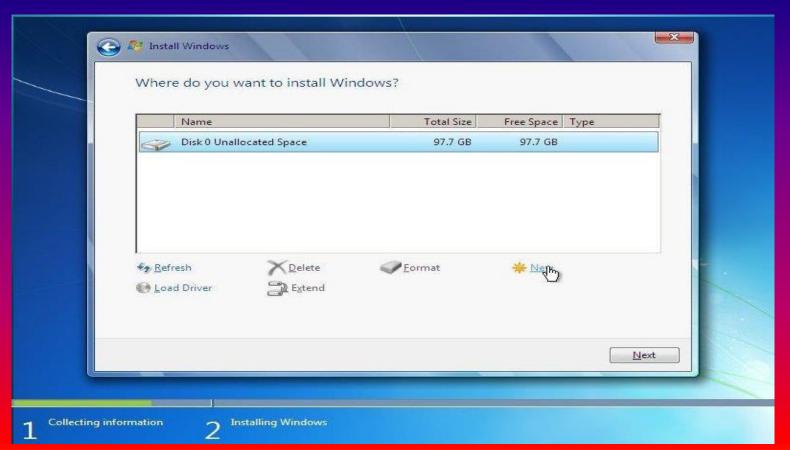
Click **Upgrade** if you already have a previous Windows version or **Custom (advanced)** if you don't have a previous Windows version or want to install a fresh copy of **Windows 7**.

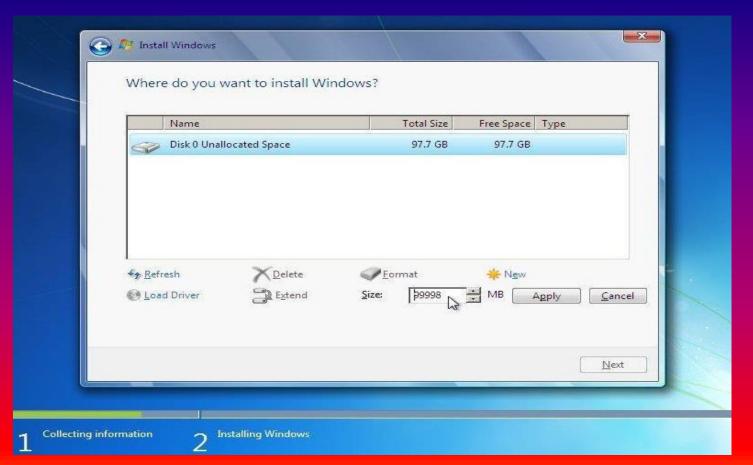


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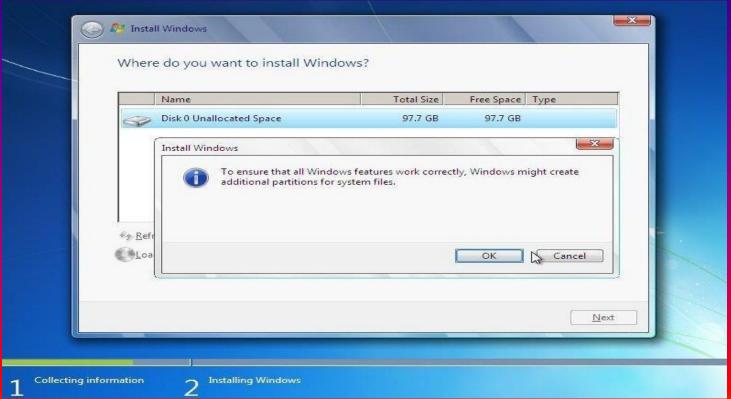
Select the drive where you want to install **Windows 7** and click **Next**. If you want to make any partitions, click **Drive options (advanced)**, make the partitions and then click **Next**.

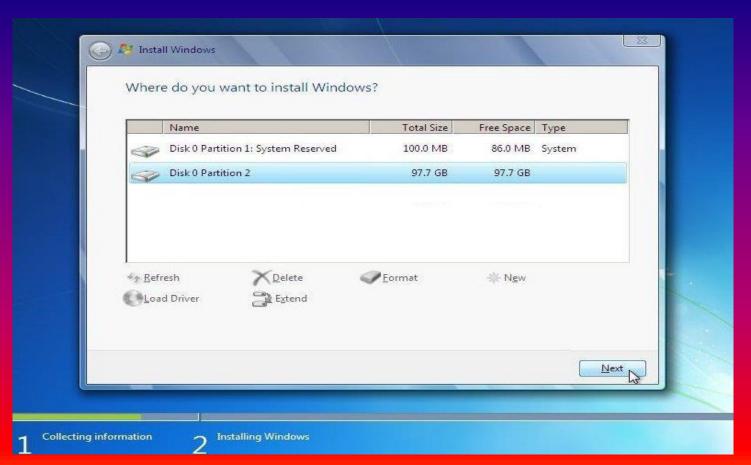




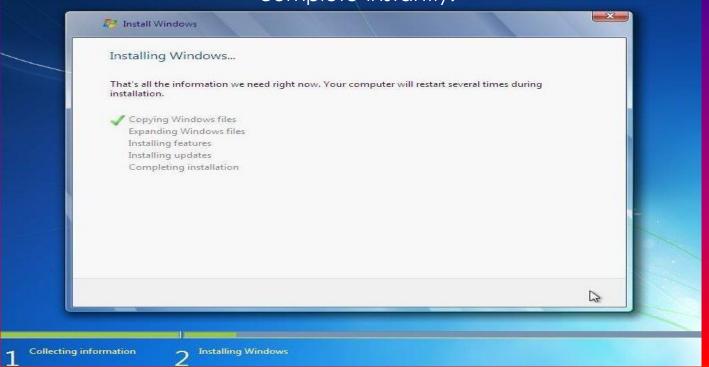


Drive Options Menu: Windows warns that it may need to create a few partitions for the system, Click "OK" to continue.

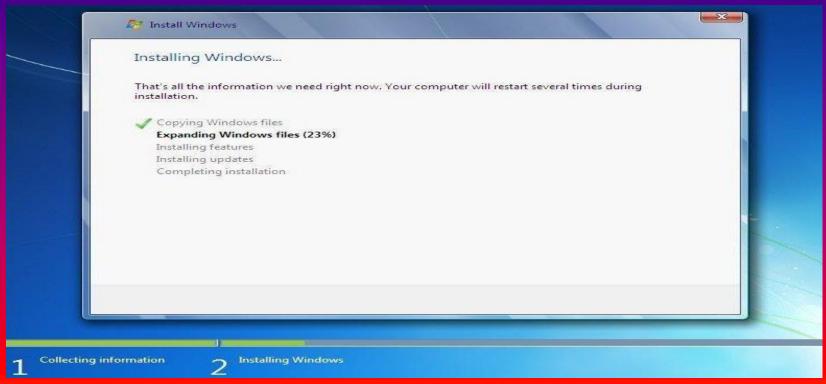


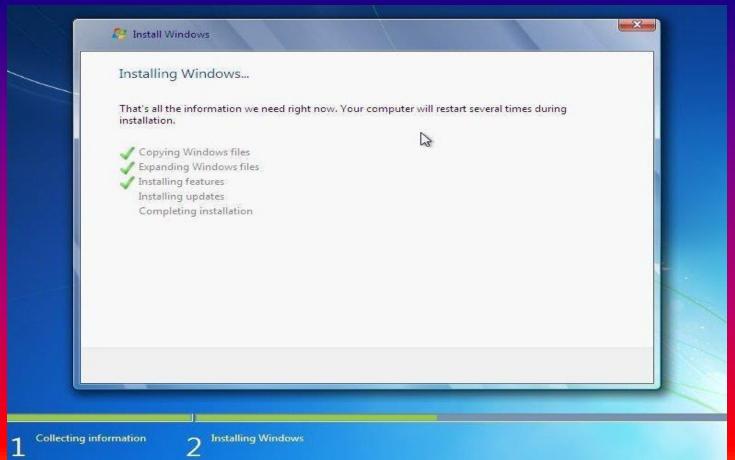


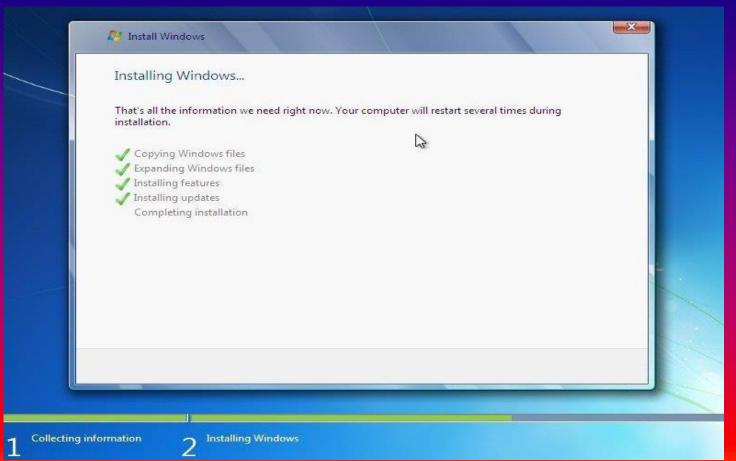
It will now start installing **Windows 7**. The first step, (i.e. **Copying Windows files**) was already done when you booted the **Windows 7 DVD** so it will complete instantly.



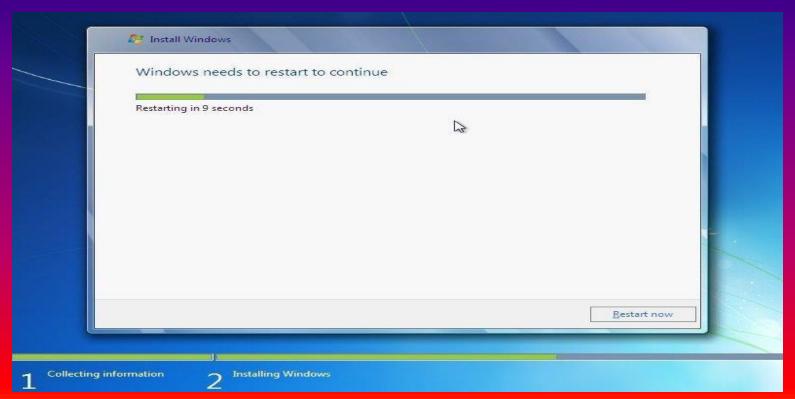
After completing the first step, it will expand (decompress) the files that it had copied.





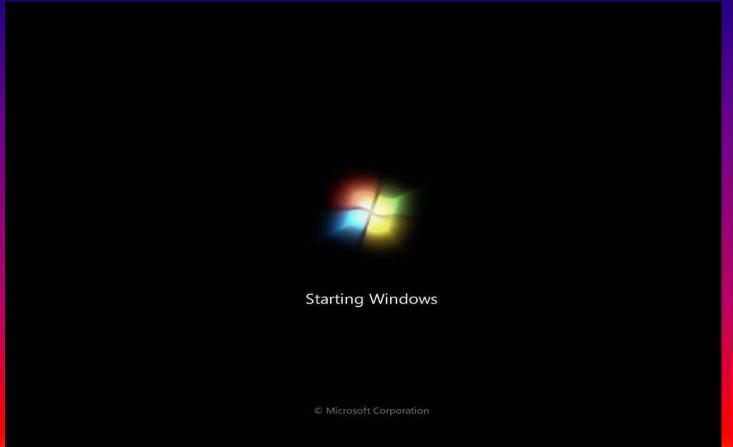


After that it will automatically restart after 15 seconds and continue the setup. You can also click Restart now to restart without any delays.



After installation, Please do not press key this time

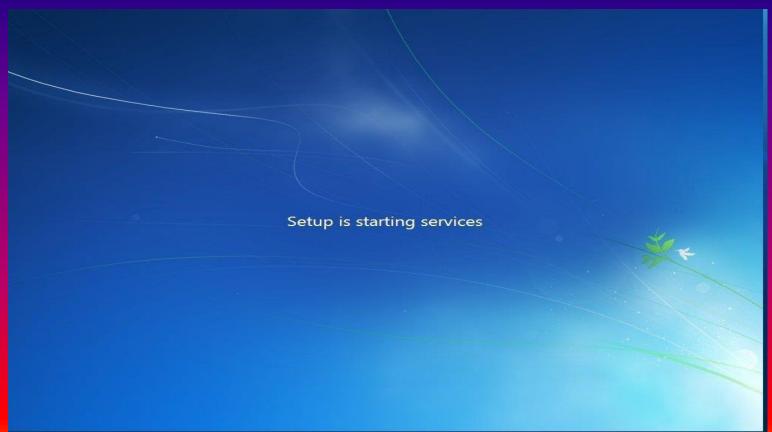
```
Press any key to boot from CD or DVD.
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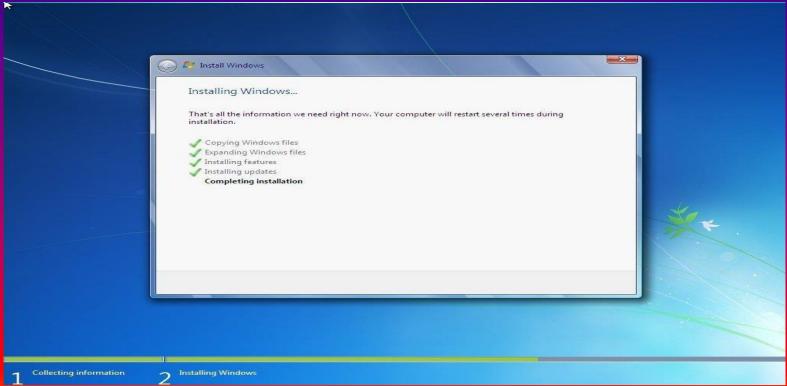


Setup is updating registry settings

© Microsoft Corporation

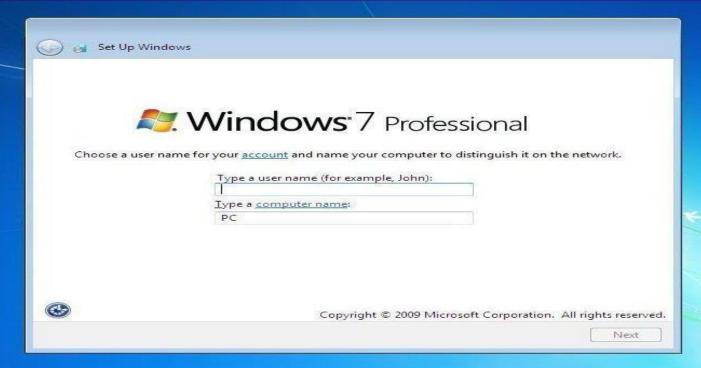


After restarting for the first time, it will continue the setup. This is the last step so it will take the most time than the previous steps.





Type your desired user name in the text-box and click Next. It will automatically fill up the computer name.



If you want to set a password, type it in the text-boxes and click Next.



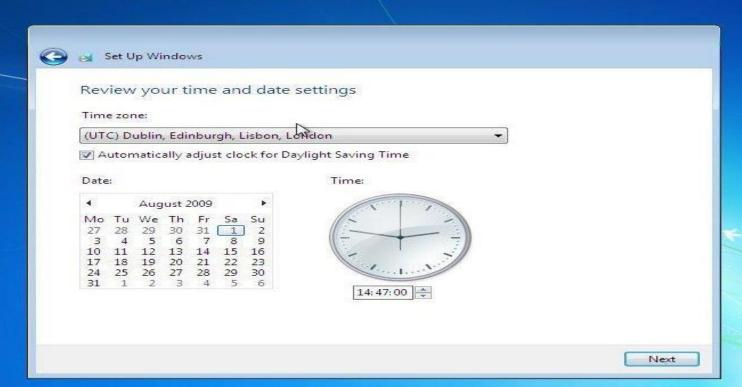
Type your product key in the text-box and click Next. You can also skip this step and simply click Next if you want to type the product key later. Windows will run only for 30 days if you do that.



Select your desired option for Windows Updates.



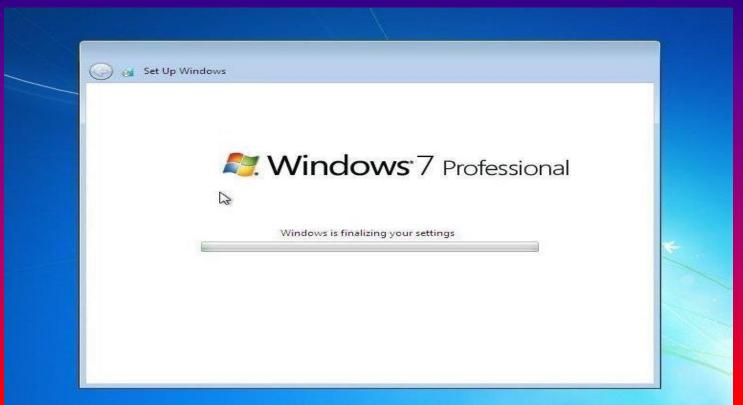
Select your time and click Next.



If you are **connected** to any network, it will ask you to set the network's location.

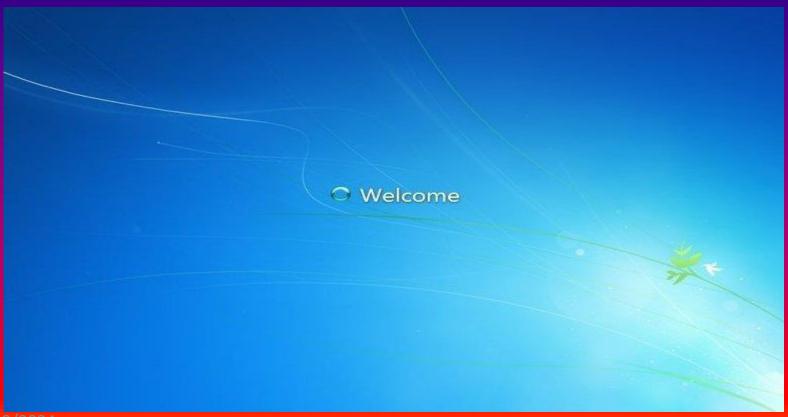


Window is finalizing your settings



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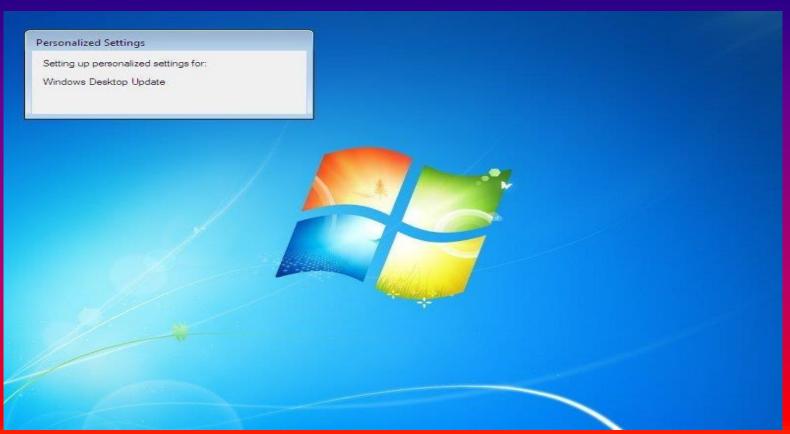
Welcome Screen

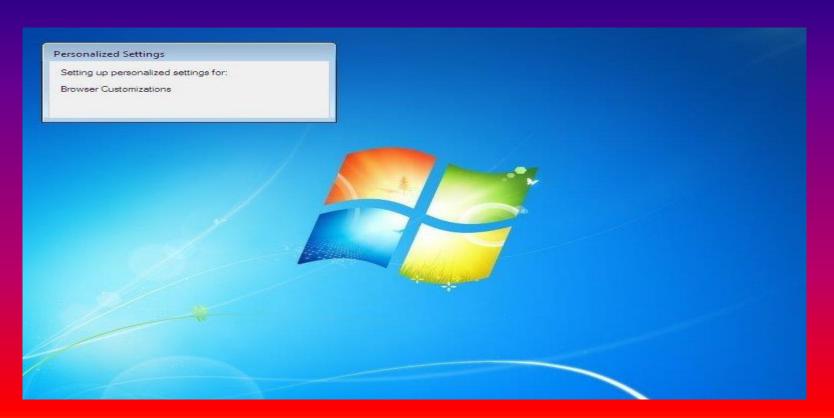


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Preparing your desktop







And there you have a fresh copy of Windows 7 installed!



Observations

- The installation process was successful without major issues.
- ➤ Proper partitioning ensured smooth functioning of the system.
- Learned how BIOS settings affect booting and installation.

Conclusion

This practicum provided hands-on experience in installing the Windows operating system. It improved my technical knowledge, enhanced problem-solving skills, and prepared me to assist in ICT integration within teaching and learning environments.

ACKNOWLEDGMENT

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RESOURCES

1.http://www.slideshare.com2.http://www.wikihow.com3.http://www.clker.com

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