**UNIVERSITY OF ENGINEERING TECHNOLOGY PESHAWAR**

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**LAB REPORT NO- 2**

**Computer fundamental**

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**SOFTWARE:**

* Part of computer which we don’t touch physically.
* Set of instruction that makes a computer to perform a task.
* It tells the computer **what to-do**.
* Without software computer is useless.

**Types of software**

1. **System software.**
2. **Application software.**

1. **System software:**

* **System software** is a type of **software** that controls the computer’s hardware.
* It maintains the computer in some way so that it runs more efficiently.

**Types of system software:**

There are **three** types of system software

1. **Operating system**
2. **Network operating system**
3. **Utility**
4. **Operating system:**

* It tells the computer how to use its own component.
* Examples are window XP, window 7&8 etc.

1. **Network operating system:**

* It allows the computer to communicate and share data through network.
* Examples are WAN, WLAN, LAN, MAN, SAN etc.

1. **utility :**

* It is a program that is used to manage disks, troubleshoot hardware problem and perform other task that operating system may not be able to do itself.
* Examples are Symantec antivirus, debuggers, backup software etc.

1. **Application software:**

* It tells the computer how to accomplish a special task for the user such as word processing or drawing.
* Most common types of application software are ms word ,ms excel etc.

**Programming language:**

* A programming language (also known as programming system) is a computer language engineered to create a standard form of commands.
* These commands can be interpreted into a code understood by a machine. Programs are created through programming languages to control the behavior and output of a machine through accurate algorithms, similar to the human communication process

**Types of programming languages are as follows;**

1. **Hardware descriptive languages(HDL):**

* Hardware descriptive language (HDL) is a programming language used to describe the behavior or structure of digital circuits (ICs).
* HDLs are also used to stimulate the circuit and check its response.

**Types of HDLs include:**

1. **Virology:**

* It is a textual format for describing electronic circuits and systems

1. **VHDL:**

* VHDL stands for very high-speed integrated circuit hardware description language.
* It is a programming language used to model a digital system by dataflow, behavioral and structural style of modeling.

1. **Software Programming languages:**

* Coded language used by programmers to write instructions that a computer understand to do what programmer or the computer user wants.

**Types of software programming languages are as follows:**

* C++ Language
* C Language
* Pascal Language
* Java Language
* Perl Language
* PHP Language
* LISP Language
* Scheme Language
* Python language

**HOW TO BOOT USB:**

**Step 1:**

Insert USB through USB port.

**Step 2:**

Open Dos (black screen).

**Step 3:**

Diskpart.

**Step 4:**

List disk.

**Step 5:**

Select disk 2.

**Step 6:**

Clean.

**Step 7:**

Create partition primary.

**Step 8:**

Format Fs =NIFS quickly.

**Step 9:**

Active.

**Step 10:**

Exit.

**How to install window:**

**Step 1:**

Placed window DVD or bootable USB drive.

**Step 2:**

Press F9 for boot option.

**Step 3:**

Select bootable source such as DVD, USB and HARDISK.

**Step 4:**

Select install window.

**Step 5:**

Select widow bits (x86, x64)

**Step 6:**

Select customize window (upgrade, **customize**)

**Step 7:**

Select window partition.

**Step 8:**

Select drive option. (Format option)

**Step 9:**

Select install window.

**Step 10:**

When your setup complete, remove your bootable device.

**Step 11:**

Window is getting computer ready.

**Step 12:**

Give your user name and password.

**Step 13**

Welcome to window 7.

***THE END***