**Pakistan School, Kingdom of Bahrain**

**E- Support and Learning Material / Session 2020-2021**

**10th Computer Science Chapter 2 Programming in C**

**Wk3**

**Objectives:** **Students will be able to define computer program, syntax and semantic**

**Students will be able to define low level and high level language**

**Related Questions**

**Q. define computer program?**

* Set of instructions written in particular programming language to solve a particular problem and achieve specific result is called computer program

**Q. define syntax?**

* Syntax refers to the rules of programming language according to which statement of a program are to be written.
* It describe the way to write correct statement in program.
* Just similar to grammar of language

**Example**

**Variable =expression**

is a syntax of assignment statement

**Q. define semantic?**

* Semantic gives meaning to the statement of programming language
* It describes the sequence of operations to perform by computer when executes the statements

Example

Sum=a+b;

means add a and b and save in sum

**Q. what is programming language?**

* Language which is understood by computer is called programming language
* Design to give instructions to system to perform specific task
* Programming languages can classified in to two categories

1. High level programming language 2. Low level programming language

**Q. Define low level programming language?**

* Low level programming language is machine oriented language
* To understand Low level languages detail knowledge of internal working of computer is required.
* It includes machine language and assembly language

**Q. Define machine language?**

* Programming language which is directly understood by computer is called machine language
* It is associated with architecture of computer
* The program which is written in machine language for one computer will not work on another because of design difference.
* It consists of zeros and ones.

**Q. Define Assembly Language?**

* It consist of symbolic codes or abbreviations knowns as mnemonics.
* It was developed to make computer programming easier than machine language.
* A program written in assembly language must be converted in to machine language before its executions.
* Require less storage
* Best choice among some applications but their use is gradually declining.

**Assignment #1**

Write the difference between assembly language and machine language

**Assignment #2**

Define the computer program

**Assignments#3**

1. Search on internet what are programming languages and write a note on it and send me back