**Pakistan School, Kingdom of Bahrain**

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

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

**Week4**

**Objectives:** **Students will be able to define HLLs and its characteristics**

**Students will be able to define some popular HLLs**

**Q. Define HLLs?**

**Q. HLLs stands for high level languages**

* English oriented language
* Use English based words such as print ,goto,if ,else ,for etc
* They are very easy to learn and use

**Q. What are the classification of HLLs?**

There are three main classification of HLLs

1. Procedural languages
2. Structured languages
3. Object oriented programming languages(OOPs)

**Q. define procedural languages?**

* Based on concept of modular programming.
* In modular programming programs are divided in to small parts, these parts are called module.
* Consists one or more modules.
* Each module perform a specific task.
* For example FORTRAN, Pascal, C and Basic.
* It is very easy to design, modify and debug.

**Q. define structured languages?**

**Consist of three elements**

1. **Sequence :**means that writing program statements in logical sequence

Each step in sequence must logically progress to next without producing undesirable effects.

1. **Selection**: it allows selection of any number statements based on result of evaluation of condition which may true or false
2. **loop**: means repetition i.e. execution of one or more statement a number of time until a condition is satisfied such as for and while loop

**Examples**

Pascal, Ada, PL/1, ALGOL

**Q. define object oriented programming languages (oops)?**

* Based on objects such as students, building, vehicles etc.
* It defines the set of rules for defining and managing objects.
* Object can be a thing that can perform a set of activities.
* Example a vehicle can be an object because it has number of doors,color,number of seats
* Set of activities that can perform on this object includes steer, accelerate, brake etc.
* Most widely used object oriented programming languages are C++,C#,PHP and java