**Programming & OOP Concepts**

**Assignment 3**

**1Q)** Given a class named **Patient,** identify what instance methods could be written in this class.

Instance methods for class **Patient:**

class Patient {

patientProfile();

patientMedicalHistory();

patientInOrOutDetails();

patientBillings();

reportStorage();

}

2Q) Given a class named **CPU,** identify the public & private instance members.

Public & Private Instance Members of class CPU:

class CPU {

public String mouse;

public String penDrive;

public String CD;

public String keyboard;

public String powerSupply;

private String logicalUnits;

private String controlUnits;

private String cache;

private String register;

}

3Q) Given a class named **Media,** assume there are 3 objects of this class. Identify the static members of this class.

Objects and static members of class **Media:**

Objects:

Print Media

Broadcast Media

Internet

Static Members Of class Media:

Language

News type

Medium Of Communication

4Q) Given a class named **Calculator** & its derived classes named **Standard** and **Scientific,** identify the method which can be overridden by the derived classes.

The methods which are common in class Calculator and derived classes standard calculator and scientific calculator are overridden by the derived class. The two calculators methods will have common operations. They are:

Addition(+)

Subtraction(-)

Multiplication(\* )

Division( / )

Equals To(=)

Percentage(%)

5Q) Given the classes **Bird, Superman, Aeroplane** and **Missile,** identify the usage of interfaces here.

Given classes are Bird, Superman, Aeroplane and Missile.

The Above four classes share the common interface, the common interface for all the classes is “flying”. The way of flying is different for all the classes.

Bird and superman have same interfaces because both are living things which depend on food, shelter etc. Aeroplane and missile have similar interface that is the fuel and the operators like engine. They share some common behavior across unrelated hierarchies.