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

Ans: In the class named patient the instance methods are,

Class: Patient

Instance method:

Name of the patient

Address of the patient

Contact details

Blood group

Weight

Deceases

Diagnoses

Medicines

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

Ans: Class name is CPU

Public instance members:

1. DVD drive
2. Price
3. CPU version
4. External memory drives

Private instance members:

1. Mother bord structure
2. ALU
3. CPU suggested price
4. CPU series
5. Speed of the CPU in GHz

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

Ans: 1. Play

2. fast forward

3. Pause

4. Volume button

5. shuffle

6. Back button

7. Graphics

8. Rewind

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

Ans: Redefining the super class / super interface methods in the child class is known as overriding.

Addition

Subtraction

Multiplication

Division

Backspace

Equal to

Numbers

percentage

Clear all

**5. Given the classes Bird, Superman, Aero plane and Missile, identify the usage of interfaces here.**

Ans:

* In java an interface specifies the behaviour of a class by providing an abstract type. Interfaces are used in java to achieve abstraction. By using the implements keyword, a java class can implement an interface.
* Here, the classes bird, superman, aeroplane and missile have the same functionality like flying, path, height at which it flies and fuel. But there way of flying, height at which they fly, paths and fuel type are different. So we have to create flying interface and its definition is different for different classes