1. Given a class named Patient, identify what instance methods could be written in this class.
2. name
3. address
4. city
5. state
6. zip code
7. phone
8. emergency contact

we can create this many instances in a class of Patient.

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

Public instance members:

1. Cpu version
2. Cpu series
3. Price
4. Speed
5. Launch date

Private instance members:

1. Cpu model number
2. Cpu architecture
3. Data rates
4. Alu
5. Control unit
6. Given a class named Media, assume there are 3 objects of this class. Identify the static members of this class.
7. Play
8. Pause
9. Next
10. Previous
11. Volume
12. Playback speed
13. Progress bar
14. Mute
15. Given a class named Calculator & its derived classes named Standard and Scientific, identify the method which can be overridden by the derived classes.

Here, Calculator is parent class and standard and scientific are its child classes.

Overriding method is used to provide specific implementation of a method which is already provided by parent class.

The common functions can be overridden by derived classes are listed below

1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Percentage
6. All clear
7. Backspace
8. Is equal to
9. Given the classes Bird, Superman, Aeroplane and Missile, identify the usage of interfaces here.

Bird:

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