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

* Instance methods in patient are
* Create a profile for patient or if created previously then ask for patient id
* Check for the disease for which the patient has came
* If he had visited previously for same issue the check progression in recovery of that disease.
* If any scanning is Required, then proceed with that scanning.
* If any surgery is Required, then proceed with the surgery.
* If the disease is curable with medicine, give them the prescription of required medicine

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

Public instance member

* Plugging in pen drive to install some software, watch movies, etc
* Inserting USB/HDMI cables to interface with other devices
* Inserting CD to watch movies, play games, listen to music etc
* Plugging in led lights to make CPU to look attractive

Private instance member

* Processing of CPU, as it can do multiple tasks like fetching data, decode the data, execute the data and write back or give the output to user
* Design and configuration of CPU is also a private instance member

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

the three objects of media are print media, broadcast media, social media

* Static members of media class
* In print media, once the content is printed on paper then I can’t be changed even if changes are required I them.
* In broadcast media, they have to be prepared on the details of the news which is going to be delivered, because once the go on air, they can’t do mistakes as it will be telecasting live.

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

The normal calculator and the scientific calculator contain some common methods including

* Addition ()
* Subtraction ()
* Division ()
* Multiplication ()
* Is Equal ()

These methods can be overridden

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

Interfaces here are

* The common interfaces for all the class are flight
* Bird and superman can have interfaces like they both are living things so food

Oxygen, shelter

* Common interfaces between Aeroplane and missile would be fuel, operator.