**DAY 2 ASSIGNMENT**

**1. TELEVISION**

**Attributes**: TV Size (dimension), pixels, sound quality, Connectivity ports, FPS etc..

**ABSTRACTION**

We watch tv shows, movies …. But we don’t know the background process how it works. we press button on the tv remote to do the operation without knowing what is happening at the back-end. This is what the abstraction is, showing useful contents without knowing the implementation.

**2. HOSPITAL**

**ENCAPSULATION**

When we enter the hospital, there are many places in hospital where only authorized person can enter or have access to that place. Eg: ICU room, pharmacy, laboratory, billing etc.. without access key one cannot enter and each place got its own functionality which is similar to encapsulation.

**3. TRAFFIC SIGNAL**

**POLYMORPHISM**

If we consider the traffic light, there are three colors. Red , green , yellow. Red for stop signal, yellow to proceed with caution, and green for go signal. All these three colors embed at one traffic light which performs different functionality. Polymorphism is similar to this. There are multiple forms of function in a single entity.

**4. Broadband Connection:**

Smartphone, computer etc... takes internet access from broadband, which takes cable line from telephone. For understanding inheritance let’s take example of smartphone. Smart phone takes the property of broadband to connect to the internet, where smartphone acts as child class and broadband acts as parent class. Child class inherits the property of parent class which is internet access to do the operation.

**5.MOBILE PHONE:**

**STATIC:**

The attributes of mobile phone which are static includes mobile specification like screen size, ram, camera pixel, processor etc..

**DYNAMIC:**

The attributes of mobile phone which are dynamic includes software update, changing wallpaper, brightness level etc.