Assignment 2

1.Given an entity named **Television,** identify its attributes and explain how will you do Abstraction?

By taking the television as an example that it has different attributes likes screen size, colour, sound, modes etc and we can explain the concept of abstraction from television. The user can able to see the essential attributes like watching pictures, comedy, listing to the audio and even can browse different information in the smart tv. But the user can’t see the non-essential attributes like the internal working of the different devices in television like audio reception, speaker system, circuit boards etc inside the television.

2.Given an entity named **Hospital,** explain Encapsulation with respect to it.

The concept of encapsulation is explained by taking the example of hospital that the hospital has the different departments such as ICU, operation units x-rays units, general surgery, nutrition, pharmacy etc. Each departments have the different functional perform. The patient should consult doctor belonging to the department according to the patient needs. For example, if a patient has the eye problem, he/she can consult the eye checkup department like that for teeth problem he/she can consult dental department etc. So, the different departments perform the different task but are encapsulated inside the single unit that is hospital to solve the health issues of the peoples.

3.Given an entity named **Traffic Signal,** explain Polymorphism with respect to it.

By taking the example of the traffic signal the concept of polymorphism is explained that the coming to the definition of polymorphism that one object have many form like drawing the shapes is the object   many forms means that drawing shapes may be triangle,square,circle etc like that traffic signal is the object forms are signal red yellow and green .The red signal indicates the vehicles to stop,yellow indicates the vehicles to slow down and get ready to stop and last green signal indicates the vehicles to go ahead this is the concept of the polymorphism explained by taking the example of traffic signal.

4.Given an entity named **Broadband Connection,** explain inheritance with respect to it.

By taking the example of the broadband connection the concept of polymorphism is explained that the coming to the definition of the inheritance that the Acquiring or getting supertype(class/inheritance) properties and the behaviors into child class is called inheritance. From the definition we can explain the inheritance of the broadband connect that broadband is the base class and its types are the child class they are Digital Subscriber Line (DSL), Cable Modem, Fiber, Wireless, Satellite, Broadband over Powerlines (BPL) child class inherits the properties of parent class.

5.Given an entity named **Mobile Phone,** identify its static & dynamic attributes.

Static attributes: Static variables have a property of preserving their value even after they are out of their scope! Hence, static variables preserve their previous value in their previous scope and are not initialized again in the new scope.

For mobile phone static attributes are battery and many internal devices etc which we can’t change their previous value.

Dynamic attributes: Dynamic attributes represent changing characteristics of the resource. For mobile phone dynamic attributes are SIM card, applications usage, wallpaper, memory card, password etc which we can change the previous value.