```
B.hanumanthu ISTE60
1)
interface Drivable{
        public void start();
        public void stop();
}
interface Flyable{
        public void takeOff();
        public void land();
}
class Car implements Drivable{
        public void start(){
                System.out.println("Car Started..");
        }
        public void stop(){
                System.out.println("Car Stopped..");
        }
}
class AirCraft implements Flyable{
        public void takeOff(){
                System.out.println("AirCraft takeoff...");
        }
        public void land(){
                System.out.println("AirCraft Landed");
        }
}
public class Vehicle{
        public static void main(String args[]){
                //Creating and Calling Objects
        System.out.println("Calling Car");
        Car c = new Car();
```

```
c.start();
       c.stop();
       System.out.println("Calling AirCraft");
       AirCraft a = new AirCraft();
       a.takeOff();
       a.land();
  }
}
         C:\WINDOWS\system32\cmd.exe
        D:\Java>javac Vehicle.java
        D:\Java>java Vehicle
        Calling Car
        Car Started..
        Car Stopped..
        Calling AirCraft
        AirCraft takeoff...
        AirCraft Landed
        D:\Java>
2)
interface AudioPlayer{
       public void playAudio();
}
interface VideoPlayer{
       public void playVideo();
}
public class Media implements AudioPlayer, VideoPlayer{
       public void playAudio(){
```

```
System.out.println("Playing Audio");
       }
       public void playVideo(){
               System.out.println("Playing Video");
       }
       static public void main(String args[]){
               Media m = new Media();
               System.out.println("Calling Audio Player");
               m.playAudio();
               System.out.println("Calling Video Player");
               m.playVideo();
       }
}
               D:\Java>notepad Media.java
               D:\Java>javac Media.java
               D:\Java>java Media
                Calling Audio Player
               Playing Audio
               Calling Video Player
               Playing Video
                D:\Java>_
4.
interface EditorPlugin{
       public void performAction();
       public void DataEntry();
       public void DBConnect();
}
public class Plugin implements EditorPlugin{
       public void performAction(){
               System.out.println("Performing Action..");
```

```
}
       public void DataEntry(){
               System.out.println("Entered Data");
       }
       public void DBConnect(){
               System.out.println("Successfully established connection with DB");
       }
       static public void main(String args[]){
               Plugin p = new Plugin();
               p.performAction();
               p.DataEntry();
               p.DBConnect();
       }
}
        D:\Java>notepad Plugin.java
        D:∖Java>javac Plugin.java
        D:∖Java>java Plugin
        Performing Action..
        Entered Data
        Successfully established connection with DB
5.
interface RemoteControl{
       public void powerOn();
       public void powerOff();
}
class TVRemote implements RemoteControl{
```

public void powerOn(){

}

System.out.println("TV switched ON");

```
public void powerOff(){
               System.out.println("TV switched OFF");
       }
}
class ACRemote implements RemoteControl{
       public void powerOn(){
               System.out.println("AC switched ON");
       }
       public void powerOff(){
               System.out.println("AC switched OFF");
       }
}
public class Control{
       static public void main(String args[]){
               System.out.println("Calling TV");
               TVRemote t = new TVRemote();
               t.powerOn();
               t.powerOff();
               System.out.println("Calling AC");
               ACRemote a = new ACRemote();
               a.powerOn();
               a.powerOff();
       }
}
```

```
D:\Java>notepad Control.java

D:\Java>javac Control.java

D:\Java>java Control

Calling TV

TV switched ON

TV switched OFF

Calling AC

AC switched OFF

D:\Java>
```

```
6.
class Animal{
        void eat(){
                System.out.println("It can Eat");
        }
        void walk(){
                System.out.println("It can Walk");
        }
        void Fly(){
                System.out.println("It can Fly");
        }
}
class Mammal extends Animal{
        void eat(){
                System.out.println("Mammal can Eat");
        }
        void walk(){
                System.out.println("Mammal can Walk");
        }
}
class Bird extends Animal{
```

```
void eat(){
                System.out.println("Bird can Eat");
        }
        void Fly(){
                System.out.println("Bird can Fly");
        }
}
class Reptile extends Animal{
        void eat(){
                System.out.println("Reptile can eat");
        }
        void walk(){
                System.out.println("Reptile can walk");
        }
}
class Test{
        public static void main(String args[]){
                Animal a;
                a = new Bird();
                a.eat();
                a.Fly();
                a = new Mammal();
                a.eat();
                a.walk();
                a = new Reptile();
                a.eat();
                a.walk();
        }
}
```

```
D:\Java>javac Test.java
D:\Java>java Test
Bird can Eat
Bird can Fly
Mammal can Eat
Mammal can Walk
Reptile can eat
Reptile can walk
D:\Java>
```

```
7.
class Shape{
        void draw(){
                System.out.println("Successfully Drawn");
        }
}
class Circle extends Shape{
        void draw(){
                System.out.println("Successfully Drawn Circle");
        }
}
class Rectangle extends Shape{
        void draw(){
                System.out.println("Successfully Drawn Rectangle");
        }
}
class Triangle extends Shape{
        void draw(){
                System.out.println("Successfully Drawn Triangle");
        }
}
class TestShape{
```

```
D:\Java>notepad TestShape.java
D:\Java>javac TestShape.java
D:\Java>java TestShape
Successfully Drawn Circle
Successfully Drawn Rectangle
Successfully Drawn Triangle
D:\Java>
```

```
class vehicle{
     void speed(int limit){
          System.out.println("Speed Limit: "+limit);
     }
}
class Car extends vehicle{
     void speed(int limit){
          System.out.println("Car Speed Limit: "+limit);
     }
}
```

8.

```
}
class Motorcycle extends vehicle{
        void speed(int limit){
                System.out.println("Motorcycle Speed Limit: "+limit);
        }
}
class Truck extends vehicle{
        void speed(int limit){
                System.out.println("Truck Speed Limit: "+limit);
        }
}
class TestVehicle{
        public static void main(String args[]){
                vehicle v;
                v = new Car();
                v.speed(80);
                v = new Motorcycle();
                v.speed(60);
                v = new Truck();
                v.speed(70);
        }
}
```

```
D:\Java>notepad TestVehicle.java
D:\Java>javac TestVehicle.java
D:\Java>java TestVehicle
Car Speed Limit: 80
Motorcycle Speed Limit: 60
Truck Speed Limit: 70
D:\Java>_
```

```
9.
class Emp{
       void workingHour(int time){
               System.out.println("Total Working Hours: "+time);
       }
}
class Manager extends Emp{
       void workingHour(int time){
               System.out.println("Manager Total Working Hours: "+time);
       }
}
class Developer extends Emp{
       void workingHour(int time){
               System.out.println("DeveloperTotal Working Hours: "+time);
       }
}
class SalesPerson extends Emp{
       void workingHour(int time){
               System.out.println("Sales Person Total Working Hours: "+time);
       }
}
class Employee{
       public static void main(String args[]){
               Emp e;
               e = new Manager();
               e.workingHour(6);
               e = new Developer();
               e.workingHour(8);
```

```
e = new SalesPerson();
e.workingHour(10);
}
```

```
D:\Java>javac Employee.java
D:\Java>java Employee
Manager Total Working Hours: 6
DeveloperTotal Working Hours: 8
Sales Person Total Working Hours: 10
D:\Java>
```