

1.Create a Demo Application to understand the role of access modifiers

```
package yasin;
class Account {
    private long acc_no;
    private String name, email;
    private float amount;
    public long getAcc_no() {
        return acc_no;
    }
    public void setAcc_no(long acc_no) {
        this.acc_no = acc_no;
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    public String getEmail() {
        return email;
    }
    public void setEmail(String email) {
        this.email = email;
    }
    public float getAmount() {
        return amount;
    }
    public void setAmount(float amount) {
        this.amount = amount;
    }
}

public class Assignment_6 {
    public static void main(String[] args) {
        Account acc = new Account();
        acc.setAcc_no(7620843368L);
        acc.setName("Yasin Tamboli");
        acc.setEmail("yasintamboli02@gmail.com");
        acc.setAmount(100000f);
        System.out.println(acc.getAcc_no() + " " + acc.getName() + " " +
acc.getEmail() + " " + acc.getAmount());
    }
}
```

2.Implement multilevel inheritance using different packages

```
class Car{
    public Car()
    {
        System.out.println("Class Car");
    }
    public void vehicleType()
    {
        System.out.println("Vehicle Type: Car");
    }
}
class Maruti extends Car{
    public Maruti()
    {
        System.out.println("Class Maruti");
    }
    public void brand()
    {
        System.out.println("Brand: Maruti");
    }
    public void speed()
    {
        System.out.println("Max: 90Kmph");
    }
}
public class Assignment_6 extends Maruti{

    public Assignment_6()
    {
        System.out.println("Maruti Model: 800");
    }
    public void speed()
    {
        System.out.println("Max: 80Kmph");
    }
    public static void main(String args[])
    {
        Assignment_6 obj=new Assignment_6();
        obj.vehicleType();
        obj.brand();
        obj.speed();
    }
}
```

Output:

Class Car
Class Maruti
Maruti Model: 800
Vehicle Type: Car
Brand: Maruti
Max: 80Kmph

3.Access/invoke protected members/methods of a class outside the package

```
package p1;
public class A {
    protected void display()
    {
        System.out.println("Yasin Tamboli");
    }
}
package p2;
import p1.*;
class B extends A {
    public static void main(String args[])
    {
        B obj = new B();
        obj.display();
    }
}
```

4.Override finalize method to understand the behavior of jvm garbage collector

```
class A
{
    int i = 50;
    @Override
    protected void finalize() throws Throwable
    {
        System.out.println("From Finalize Method");
    }
}
public class Assignment_6
{
    public static void main(String[] args)
    {
        A a1 = new A();
        A a2 = new A();
        a1 = a2;
        System.out.println("done");
    }
}
```