Lab 7

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Ques1: Write a Java program to implement the concept of importing classes from user defined package.

Source Code

```
package UserDefined;
public class PackageDemo {
     public static void main(String args[]) {
           System.out.println("This is demo package");
     }
     public void msg() {
           System.out.println("Msg method inside PackageDemo");
     }
}
import UserDefined.PackageDemo;
public class ImportClass{
     public static void main(String args[]){
           PackageDemo obj1 = new PackageDemo();
           obj1.msg();
     }
}
```

```
TERMINAL DEBUG CONSOLE PROBLEMS OUTPUT JUPYTER

PS C:\Users\himan\userDefined> java PackageDemo.java
This is demo package
PS C:\Users\himan\userDefined> cd..
PS C:\Users\himan> javac ImportClass.java
PS C:\Users\himan> java ImportClass.java
Msg method inside PackageDemo
PS C:\Users\himan> 

PS C:\Users
```

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Ques2: Write a program to make a package Balance. This has an Account class with Display_Balance method. Import Balance package in another program to access Display_Balance method of Account class.

Source Code

```
package Balance;

public class Account {
    static int balance = 200;
    static public void Display_Balance() {
        System.out.println("Balance is: "+balance);
    }
}

import Balance.Account;

public class ImportBalance {
    public static void main(String args[]) {
        Account obj = new Account();
        obj.Display_Balance();
    }
}
```

```
TERMINAL DEBUG CONSOLE PROBLEMS 1 OUTPUT JUPYTER

PS C:\Users\himan> cd Balance
PS C:\Users\himan\Balance> javac Account.java
PS C:\Users\himan> javac ImportBalance.java
PS C:\Users\himan> javac ImportBalance.java
PS C:\Users\himan> java ImportBalance.java
Balance is: 200
PS C:\Users\himan> []

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Ques3: WAP to create a package p with class A with 4 types of access protected methods. Show which of these methods can be used in different package's class i.e. there is main() in class B in package Q and 4 methods are in Class A in package p.

Source Code

```
package p;
public class A{
     public void meth1(){
           System.out.println("This is public meth1");
     }
      private void meth2(){
           System.out.println("This is meth2");
      void meth3(){
           System.out.println("This is meth3");
      protected void meth4(){
           System.out.println("This is meth4");
     public static void main(String args[]){
           A obj = new A();
           obj.meth1();
     }
}
a)
package Q;
import p.A;
public class B1{
     public static void main(String args[]){
           A obj1 = new A();
           obj1.meth1();
     }
}
```

```
Name: Hitendra Sisodia Lab 7
Sap id: 500091910

b)

package Q;
import p.A;

public class B2{
    public static void main(String args[]){
        A obj1 = new A();
        obj1.meth2();
    }
}
```

Output

```
c)
package Q;
import p.A;

public class B3{
    public static void main(String args[]){
        A obj1 = new A();
        obj1.meth3();
    }
}
```

```
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d)

package Q;
import p.A;

public class B4{
    public static void main(String args[]){
        A obj1 = new A();
        obj1.meth4();
    }
}
```

```
TERMINAL DEBUG CONSOLE PROBLEMS OUTPUT JUPYTER

PS C:\Users\himan> javac B4.java
B4.java:7: error: meth4() has protected access in A
obj1.meth4();

1 error
PS C:\Users\himan> ■
```