Lab Activity 6

Name – Sarvagya Gupta Sap ID – 500083195 Roll No.- R2142201047 Batch – B6 (SPZ - Al ML)

Title - Package

1. Write a Java program to implement the concept of importing classes from user-defined packages and created packages.

Code

```
package pack;

public class message {
    public void print()
    {
        System.out.println(" hello ");
    }
}

import pack.message;

public class print {

Run|Debug
    public static void main (string args[])
    {
        message obj = new message ();
        obj.print();
}

by

class print {
        message obj.print();
}
```

```
PS E:\codes\java\lab6> cd "e:\codes\java\lab6\" ; if ($?) { javac print.java } ; if ($?) { java print } hello
PS E:\codes\java\lab6> [
```

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

Code

```
package lab6.q2.balance;

public class Account

{
    public void Display_Balance(String name, int number , int balance )
    {
        System.out.println(" Name of the account holder : "+name );
        System.out.println(" Account number : " +number );
        System.out.println(" Account balance : " +balance);

}

}

}

13
```

```
import lab6.q2.balance.Account;

public class Bank

Run|Debug

public static void main (String args [])

Account obj = new Account();

obj.Display_Balance ( "Sarvagya Gupta ", 5000083195 , 500000);

by

comparison of the public static void main (String args [])

Account obj = new Account();

comparison of the public static void main (String args [])

Account obj = new Account();

comparison of the public static void main (String args [])

Account obj = new Account();

comparison of the public static void main (String args [])

Account obj = new Account();

comparison of the public static void main (String args [])

Account obj = new Account();

comparison of the public static void main (String args [])

Account obj = new Account();

comparison of the public static void main (String args [])

comparison of the public static void main (String args [])

comparison of the public static void main (String args [])

comparison of the public static void main (String args [])

comparison of the public static void main (String args [])

comparison of the public static void main (String args [])

comparison of the public static void main (String args [])

comparison of the public static void main (String args [])

comparison of the public static void main (String args [])

comparison of the public static void main (String args [])

comparison of the public static void main (String args [])

comparison of the public static void main (String args [])

comparison of the public static void main (String args [])

comparison of the public static void main (String args [])

comparison of the public static void main (String args [])

comparison of the public static void main (String args [])

comparison of the public static void main (String args [])

comparison of the public static void main (String args [])

comparison of the public static void main (String args [])

comparison of the public static void main (String args [])

comparison of the public static void main (String args [])

comparison of the public static void m
```

```
PS E:\codes\java> & 'c:\Users\Sarvagya Gupta\.vscode\extensions\vscjava.vscode-javoundation\jdk-11.0.12.7-hotspot\bin\java.exe' '-Dfile.encoding=UTF-8' '-cp' 'C:\Use 8c57f59a9f97e58a3ad5c4d77e97b\redhat.java\jdt_ws\java_59701c25\bin' 'lab6.q2.Bank' Name of the account holder : Sarvagya Gupta Account number : 500083195 Account balance : 500000 PS E:\codes\java>
```

3. WAP to create a package p with class A with 4 types of access-protected methods. How we will use these methods in different packages class i.e. there is main() in class B in package Q and 4 methods are in Class A in package p.

Code

```
package p;
public class A{
    public static void meth1(){
        System.out.println("This is public method");
    protected static void meth2(){
        System.out.println("This is protected method");
    private static void meth3(){
        System.out.println("This is private method");
    static void meth4(){
        System.out.println("This is default method");
    Run | Debug
    public static void main(String[] args){
        A c = new A();
        A.meth1();
        A.meth2();
        A.meth3();
        A.meth4();
```

Output

```
PS C:\Users\Lenovo\OneDrive\Desktop\500082715\OOPS\Practice> javac -d . A.java
PS C:\Users\Lenovo\OneDrive\Desktop\500082715\OOPS\Practice> java p.A
This is public method
This is protected method
This is private method
This is default method
```

Code

```
package p;

public class C extends A{
    Run|Debug
    public static void main(String[] args){
        C c = new C();
        C.meth1();
        C.meth2();

        // C.meth3(); --> can not access private methods
        C.meth4();
    }
}
```

```
PS C:\Users\Lenovo\OneDrive\Desktop\500082715\OOPS\Practice> javac -d . C.java PS C:\Users\Lenovo\OneDrive\Desktop\500082715\OOPS\Practice> java p.C This is public method This is protected method This is default method
```

Code

```
package q;
import p.A;

public class B{
    Run|Debug
    public static void main(String[] args){
        A a = new A();
        A.meth1();
        // A.meth2(); --> can not access protected methods
        // A.meth3(); --> can not access private methods
        // A.meth4(); --> can not access default methods
    }
}
```

Output

```
PS C:\Users\Lenovo\OneDrive\Desktop\500082715\OOPS\Practice> javac -d . B.java PS C:\Users\Lenovo\OneDrive\Desktop\500082715\OOPS\Practice> java q.B This is public method
```

Code

```
package q;
import p.A;

public class D extends A{
    Run|Debug
    public static void main(String[] args){
        D a = new D();
        D.meth1();

        D.meth2();

        // D.meth3(); --> can not access private methods
        // D.meth4(); --> can not access default methods
}
```

```
PS C:\Users\Lenovo\OneDrive\Desktop\500082715\00PS\Practice> javac -d . D.java PS C:\Users\Lenovo\OneDrive\Desktop\500082715\00PS\Practice> java q.D This is public method
This is protected method
```