**Practical 7** W A P to demonstrate concept of different type of access modifiers using Package

**Default access modifier:**

**Addition.java**

package abcpackage;

public class Addition

{

int addTwoNumbers(int a, int b)

{

return a+b;

}

}

**Test.java**

package xyzpackage;

import abcpackage.\*;

public class Test

{

public static void main(String args[])

{

Addition obj = new Addition();

obj.addTwoNumbers(10, 21);

}

}

**Output:**

Exception in thread "main" java.lang.Error: Unresolved compilation problem:

The method addTwoNumbers(int, int) from the type Addition is not visible

at xyzpackage.Test.main(Test.java:12)

**Private access modifier:**

class ABC

{

private double num = 100;

private int square(int a)

{

return a\*a;

}

}

public class Example

{

public static void main(String args[])

{

ABC obj = new ABC();

System.out.println(obj.num);

System.out.println(obj.square(10));

}

}

**Output:**

Compile - time error

**Protected Access Modifier:**

**Addition.java**

package abcpackage;

public class Addition

{

protected int addTwoNumbers(int a, int b)

{

return a+b;

}

}

**Test.java**

**package xyzpackage;**

**import abcpackage.\*;**

**class Test extends Addition**

**{**

**public static void main(String args[])**

**{**

**Test obj = new Test();**

**System.out.println(obj.addTwoNumbers(11, 22));**

**}**

**}**

**Output:**

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**Public access modifier**

**package abcpackage;**

**public class Addition**

**{**

**public int addTwoNumbers(int a, int b)**

**{**

**return a+b;**

**}**

**}**

**Test.java**

**package xyzpackage;**

**import abcpackage.\*;**

**class Test**

**{**

**public static void main(String args[])**

**{**

**Addition obj = new Addition();**

**System.out.println(obj.addTwoNumbers(100, 1));**

**}**

**}**

**Output:**

101