# **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:**

**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