Access Modifier	Within class	Within package	Outside package by subclass only	Outside package
Private	Yes	No	No	No
Default	Yes	Yes	No	No
Protected	Yes	Yes	Yes	No
Public	Yes	Yes	Yes	Yes

```
//Access modifiers within the class
class Day4P1
{
int A=5;
private int B=10;
public int C=20;
protected int D=30;
                public static void main(String args[])
                Day4P1 obj = new Day4P1();
                System.out.println("Default A = "+obj.A);
                System.out.println("Private B = "+obj.B);
                System.out.println("Public C = "+obj.C);
                System.out.println("Protected D = "+obj.D);
                }
}
```

```
//Access modifiers within the package
class A
{
int A=5;
private int B=10;
public int C=20;
protected int D=30;
class Day4P2 extends A
    public static void main(String args[])
    Day4P1 obj = new Day4P1();
    System.out.println("Default A = "+obj.A);
    //System.out.println("Private B = "+obj.B);
                                             // Cannot access Private outside the class, If we try it produce error
    System.out.println("Public C = "+obj.C);
    System.out.println("Protected D = "+obj.D);
//Access modifiers outside the package
Part 1
                                package Temp;
                   //Creating package Temp
public class Day4P3A //Compile this program using "javac -d . Day4P3A.java" command
int A=5;
private int B=10;
public int C=20;
protected int D=30;
//Compile this program using "javac -d . Day4P3A.java" command
Part 2
                                //Access modifiers outside the package
import Temp.Day4P3A;
                          //Importing package created by Day4P3A.java program
class Day4P3 extends Day4P3A
{
    public static void main(String args[])
    Day4P3 obj = new Day4P3();
    //System.out.println("Default A = "+obj.A); // Cannot access Default outside the package, If we try it produce error
    //System.out.println("Private B = "+obj.B); // Cannot access Private outside the class, If we try it produce error
    System.out.println("Public C = "+obj.C);
    System.out.println("Protected D = "+obj.D);
//Compile this program using javac Day4P3.java command
//Run this program using java Day4P3 command
```

```
//Access modifiers outside the package without inheritance
import Temp.Day4P3A;
                           //Importing package created by Day4P3A.java program
class Day4P4
{
    public static void main(String args[])
    Day4P3
                  obj = new Day4P3();
//System.out.println("Default A = "+obj.A);
                                        // Cannot access Default outside the package, If we try it produce error
//System.out.println("Private B = "+obj.B);
                                        // Cannot access Private outside the class, If we try it produce error
System.out.println("Public C = "+obj.C);
//System.out.println("Protected D = "+obi.D); // Cannot access protected outside the package without inheritance, If we
try it produce error
    }
}
```

```
C:\Windows\system32\cmd.exe
                                                                                           23
C:\Users\Jay\Desktop\JAVA\Day4>javac -d . Day4P0.java
C:\Users\Jay\Desktop\JAVA\Day4>java TEMP.Day4P0
        Package created successfully
C:\Users\Jay\Desktop\JAVA\Day4>javac Day4P1.java
C:\Users\Jay\Desktop\JAVA\Day4>java Day4P1
Default A = 5
Private B = 10
Public C = 20
Protected D = 30
C:\Users\Jay\Desktop\JAVA\Day4>javac Day4P2.java
C:\Users\Jay\Desktop\JAVA\Day4>java Day4P2
Default A = 5
Public C = 20
Protected D = 30
C:\Users\Jay\Desktop\JAVA\Day4}javac -d . Day4P3A.java
C:\Users\Jay\Desktop\JAVA\Day4>javac Day4P3.java
C:\Users\Jay\Desktop\JAVA\Day4>java Day4P3
Public C = 20
Protected D = 30
C:\Users\Jay\Desktop\JAVA\Day4>javac -d . Day4P3A.java
C:\Users\Jay\Desktop\JAVA\Day4>javac Day4P4.java
C:\Users\Jay\Desktop\JAVA\Day4>java Day4P4
Public C = 20
C:\Users\Jay\Desktop\JAVA\Day4>
```