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Experiment 1.4

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Branch: CSE   **Section/Group:6B**
Semester: 3rd   **Date of Performance: 16/09/2021**
Subject Name:Java Program Lab   **Subject Code:20CSP-219**

1) Aim/Overview of the practical:

Write program to study access modifiers in java using packages.

2) Task to be done/ Which logistics used:

To write a program to study access modifiers in java using packages.

3) Algorithm/Flowchart (For programming based labs):

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4) Steps for experiment/practical/Code:

Default Access Modifiers:

```java
package com.company;

class Base_Class
{
    void display()
    {
        System.out.println("\nDisplayed with 'default' scope!");
    }
}

class Main_Class
{
    public static void main(String args[])
    {

        Base_Class obj = new Base_Class();

        obj.display();
    }
}
```

Public Access Modifiers:

```java
class Base
{
    public void display()
    {
        System.out.println("\nDisplayed with 'public' scope!");
    }
}
class Main_unit
{
    public static void main(String args[])
    {
        Base obj = new Base();
        obj.display();
    }
}
```

Protected Access Modifiers:

```java
class A
{
    protected void display()
    {
        System.out.println("\nDisplayed with 'protected' scope!");
    }
}

class B extends A {}


class Main_unit
{
    public static void main(String args[])
    {
        B obj = new B();
        obj.display();

    }
}
```

Private Access Modifiers:

```java
class A
{
    private void display()
    {
        System.out.println("\nDisplayed with 'private' scope!");
    }
}

class B extends A {}


class Main_unit {
    public static void main(String args[]) {
        B obj = new B();
        obj.display();

    }
}
```

5. Observations/Discussions/ Complexity Analysis:

6. Result/Output/Writing Summary:

Default Access Modifiers:

```
Displayed with 'default' scope!
```

Public Access Modifiers:

```
Displayed with 'public' scope!
```

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Protected Access Modifiers:

```
Displayed with 'protected' scope!
```

Private Access Modifiers:

```
java: cannot find symbol
  symbol:   method display()
  location: variable obj of type com.company.B
```

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Learning outcomes (What I have learnt):

1. Learnt about java programming language.

2. Learnt about the different types access modifiers.

3.

4.

5.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			