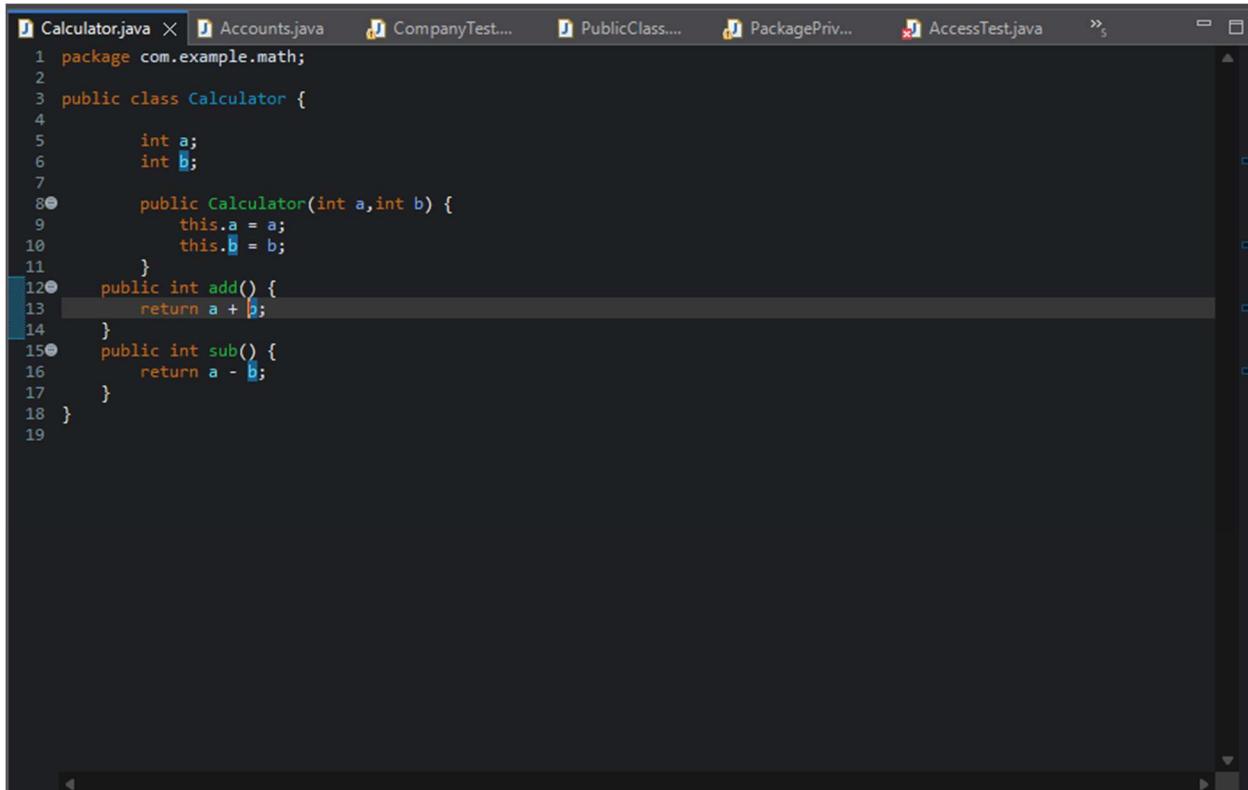


Assignment - 9

Q1)



```
Calculator.java
1 package com.example.math;
2
3 public class Calculator {
4     int a;
5     int b;
6
7     public Calculator(int a,int b) {
8         this.a = a;
9         this.b = b;
10    }
11    public int add() {
12        return a + b;
13    }
14    public int sub() {
15        return a - b;
16    }
17 }
18
19
```

```
MathTest.java
1 package com.example.test;
2 import com.example.math.*;
3 public class MathTest {
4
5     public static void main(String[] args) {
6
7         Calculator c = new Calculator(5,6);
8         System.out.println(c.add());
9         System.out.println(c.sub());
10    }
11 }
12
13 }
```

```
<terminated> MathTest [Java Application] C:\Users\yadav\Downloads\eclipse-jee-2025-09-R-win32-x86_64\eclipse\plu
11
-1
```

Q2)

```
1 package com.example.shapes;
2
3 import com.example.utils.MathUtils;
4
5 public class Circle {
6
7     double r;
8     public Circle(int r) {
9         this.r =r;
10    }
11    MathUtils m =new MathUtils();
12    public double areaCircle() {
13
14        return m.Mathpy()*r*r;
15    }
16
17
18 }
19
```

```
1 package com.example.utils;
2
3 public class MathUtils {
4
5     public double Mathpy() {
6
7         return 3.14;
8     }
9
10
11 }
12
```

```
Calculator.java MathTest.java Circle.java MathUtils.java ShapeTest.java Accounts.java
1 package com.example.shapes;
2
3 public class ShapeTest {
4     public static void main(String[] args) {
5         Circle c = new Circle(5);
6         System.out.println("Area of Circle is : "+c.areaCircle());
7     }
8 }
9
```

A screenshot of the Eclipse IDE interface. The top bar shows several open tabs: Calculator.java, MathTest.java, Circle.java, MathUtils.java, ShapeTest.java (which is the active tab), and Accounts.java. The ShapeTest.java code is displayed in the editor:

```
1 package com.example.shapes;
2
3 public class ShapeTest {
4     public static void main(String[] args) {
5         Circle c = new Circle(5);
6         System.out.println("Area of Circle is : "+c.areaCircle());
7     }
8 }
9
```

The Eclipse IDE interface showing the output of the ShapeTest.java application in the Console tab. The output text is "Area of Circle is : 78.5".

Q3)

A screenshot of the Eclipse IDE interface showing the Accounts.java code. The code defines a class Accounts with attributes accno, minbal, and bal, and methods for constructor and displaying account details.

```
1 package accounts;
2 public class Accounts{
3
4     String accty;
5     int accno;
6     int minbal;
7     int bal;
8
9     public Accounts (String accty, int accno, int minbal,int bal){
10
11         this.accty  = accty;
12         this.accno  = accno;
13         this.minbal = minbal;
14         this.bal    = bal;
15     }
16     public void displayAccountDetails(){
17         System.out.println("Account Type : "+accty+"\nAccount Number : "+accno+"\nMinimum Balance : "+minbal+"\nBalance : "+bal);
18     }
19 }
20 }
```

```
1 package hr;
2 public class Employee{
3     int emp_id;
4     String post;
5     String company;
6
7     public Employee(int emp_id, String post, String company){
8
9         this.emp_id =emp_id;
10        this.post = post;
11        this.company= company;
12    }
13
14    public void getdata(int emp_id, String post, String company){
15
16        this.emp_id =emp_id;
17        this.post = post;
18        this.company= company;
19    }
20    public void EdisplayEmployeeDetails(){
21
22        System.out.println("Employee ID : "+emp_id+"\nPOST : "+post+"\nCompany : "+company);
23    }
24 }
```

```
1 package com.company;
2 import accounts.Accounts;
3 import hr.Employee;
4 public class CompanyTest {
5     public static void main(String[] args) {
6
7
8     Accounts a = new Accounts("Saving",94,7878,77777);
9     Employee e = new Employee(565,"Developer","USA");
10    a.displayAccountDetails();
11    e.EdisplayEmployeeDetails();
12 }
13 }
```

Problems @ Javadoc Declaration Console

<terminated> CompanyTest [Java Application] C:\Users\yadav\Downloads\eclipse-jee-2025-09-R-wi

```
Account Type : Saving
Acvcount Number : 94
Minimum Balance : 7878
Balance : 77777
Employee ID : 565
POST : Developer
Company : USA
```

Q4)

AccessTest.java

```
1 package com.example.access;
2 public class AccessTest {
3     public static void main(String[] args) {
4         PackagePrivateClass p = new PackagePrivateClass();
5         PublicClass u = new PublicClass();
6         u.showPublicMessage();
7         try {
8             p.showPackagePrivateMessage();
9         }
10        catch (Exception e) {
11            System.out.println(e);
12        }
13    }
14 }
```

PackagePrivateClass.java

```
1 package com.example.access;
2
3 public class PackagePrivateClass {
4
5     private void showPackagePrivateMessage() {
6         System.out.println("Mesage from private");
7     }
8 }
```

PublicClass.java

```
1 package com.example.access;
2
3 public class PublicClass {
4
5     public void showPublicMessage() {
6         System.out.println("Mesage From Public");
7     }
8
9
10 }
```

Console

```
<terminated> AccessTest [Java Application] C:\Users\yadav\Downloads\eclipse-jee-2025-09-R-win32-x86_64\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86
Exception in thread "main" java.lang.Error: Unresolved compilation problem:
The method showPackagePrivateMessage() from the type PackagePrivateClass is not visible
at Java/com.example.access.AccessTest.main(AccessTest.java:8)
```

