

Name Nikhil Gupta

Roll No. 20051523

Batch CSE-06

Branch CSE

Subject web Tech

Assignment 11

Ques 1

```
package package1;
```

```
public class DisplayClass {
```

```
    public void display() {
```

```
        System.out.println("Example of package1");
```

```
    }
```

```
}
```

```
import package1.*;
```

```
public class UsePackage {
```

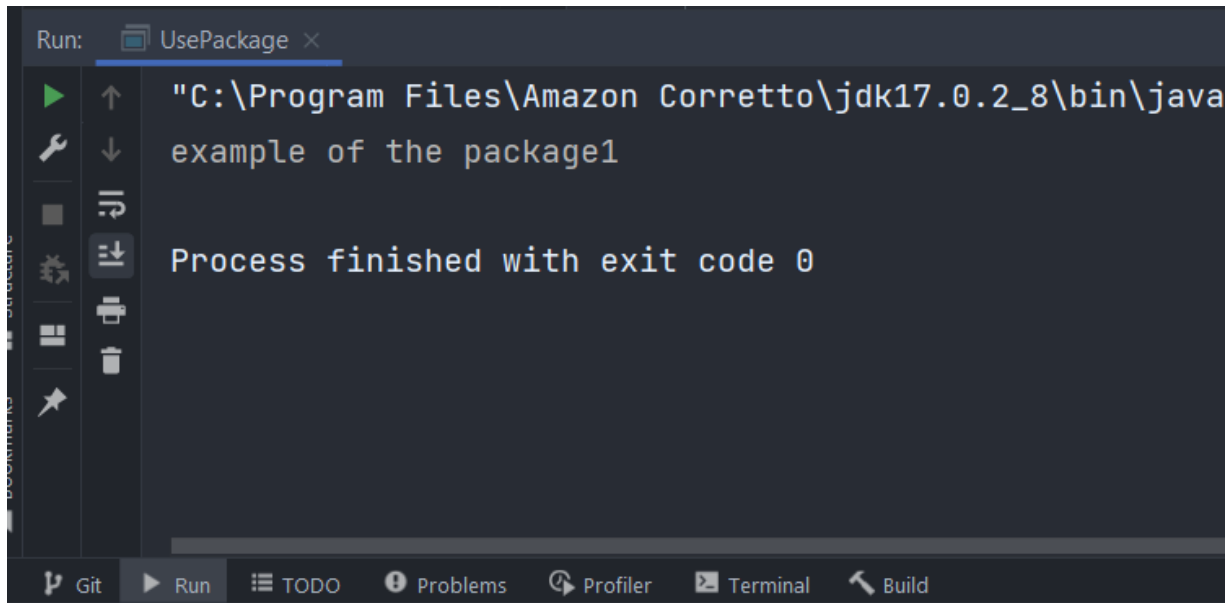
```
    public static void main(String[] args) {
```

```
        DisplayClass ds = new DisplayClass();
```

```
        ds.display();
```

```
    }
```

```
}
```



Ques 2

Package P1

Package P1;

public class protection

{

int n=1;

private int n_pub = 4;

private int n_pro = 3;

private int n_pri = 2;

public protection()

{

System.out.println("Base const.");

System.out.println("n = " + n);

System.out.println("n_pri = " + n_pri);

System.out.println("n_pro = " + n_pro);

System.out.println("n_pub = " + n_pub);

}

}

public class Derived extends Protection {

Derived()

{

```
System.out.println("derived constructor");  
System.out.println("n = " + n);  
System.out.println("n_pro = " + n_pro);  
System.out.println("n_pub = " + n_pub);  
}
```

```
}
```

```
package pl;
```

```
class SamePackage {
```

```
    SamePackage()
```

```
{
```

```
    Protection p = new Protection();
```

```
    System.out.println("same Package constructor");
```

```
    System.out.println("n = " + p.n);
```

```
    System.out.println("n_pro = " + p.n_pro);
```

```
    System.out.println("n_pub = " + p.n_pub);
```

```
}
```

```
}
```

```
package P1;
```

```
public class Demo {
```

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

```
    {
```

```
        Protection obj1 = new Protection();
```

```
        Derived obj2 = new Derived();
```

```
        SamePackage obj3 = new SamePackage();
```

```
    }
```

```
}
```

```
Package P2;
```

```
class Protection2 extends p1.Protection
```

```
{
```

```
    Protection2()
```

```
    {
```

```
        System.out.println("Protection2 constructor");
```

```
        System.out.println("n-pro = " + n-pro);
```

```
        System.out.println("n-pub = " + n-pub);
```

```
    }
```

```
}
```

```
package P2;
```

```
class OtherPackage
```

```
{
```

```
    OtherPackage()
```

```
    {
```

```
        P1.protection p = new P1.protection();
```

```
        System.out.println("Other Package Constructor");
```

```
        System.out.println("n-pub = " + p.n-pub);
```

```
    }
```

```
}
```

```
package p2;
```

```
public class Demo2
```

```
{
```

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

```
    {
```

```
        Protection2 obj1 = new Protection2();
```

```
        OtherPackage obj2 = new OtherPackage();
```

```
    }
```

```
}
```

Run: Demo x

```
↑ "C:\Program Files\Amazon Corretto\jdk17
↓ base constructor
↵ n = 1
⇅ n_pri = 2
📷 🖨 n_pro = 3
🗑 n_pub = 4
🗑 base constructor
🗑 n = 1
🗑 n_pri = 2
🗑 n_pro = 3
🗑 n_pub = 4
🗑 derived constructor
🗑 n = 1
🗑 n_pro = 3
🗑 n_pub = 4
🗑 base constructor
🗑 n = 1
🗑 n_pri = 2
🗑 n_pro = 3
🗑 n_pub = 4
🗑 same package constructor
🗑 n = 1
🗑 n_pro = 3
🗑 n_pub = 4
```

Run: Demo2 x

```
↑ "C:\Program Files\Amazon Corretto\jdk17
↓ base constructor
↵ n = 1
⇅ n_pri = 2
📷 🖨 n_pro = 3
🗑 n_pub = 4
🗑 derived other package constructor
🗑 n_pro = 3
🗑 n_pub = 4
🗑 base constructor
🗑 n = 1
🗑 n_pri = 2
🗑 n_pro = 3
🗑 n_pub = 4
🗑 other package constructor
🗑 n_pub = 4

Process finished with exit code 0
```

Git Run TODO Problems Profiler Terminal

Ques 3

```
package currencyconversion;
```

```
import java.util.*;
```

```
public class currency {
```

```
    double inr, usd;
```

```
    double euro, yen;
```

```
    Scanner in = new Scanner(System.in);
```

```
    public void dollarToRupee()
```

```
    {
```

```
        System.out.println("Enter dollars to convert  
into rupees.");
```

```
        usd = in.nextInt();
```

```
        inr = usd * 78;
```

```
        System.out.println("Dollar = " + usd + " equal to  
INR = " + inr);
```

```
    }
```

```
    public void RupeeToDollar()
```

```
    {
```

```
        System.out.println("Enter Rupee to convert into  
Dollars: ");
```



```
inr = in.nextInt();
```

```
USD = inr / 78;
```

```
System.out.println("Rupee = " + inr + " equal to  
Dollars = " + USD);
```

```
}
```

```
public void eurotorupee()
```

```
{
```

```
System.out.println("Enter euro to convert into  
Rupees: ");
```

```
euro = in.nextInt();
```

```
inr = euro * 79.50;
```

```
System.out.println("Euro = " + euro + " equal to INR  
" + inr);
```

```
}
```

```
public void rupee2euro()
```

```
{
```

```
System.out.println("Enter Rupees to convert into  
Euro: ");
```

```
inr = in.nextInt();
```

```
euro = (inr / 79.50);
```

```
System.out.println("Rupee = " + inr + " equal  
to euro = " + euro);
```

```
}
```

```
public void yenToRupee()
```

```
{
```

```
System.out.println("Enter yen to convert into  
Rupees: ");
```

```
yen = in.nextInt();
```

```
inr = yen * 0.61;
```

```
System.out.println("Yen = " + yen + " equal to INR =  
+ inr);
```

```
}
```

```
public void RupeeToYen()
```

```
{
```

```
System.out.println("Enter Rupees to convert into  
yen");
```

```
inr = in.nextInt();
```

```
yen = (inr / 0.61);
```

```
System.out.println("INR = " + inr + " equal to  
    Yen" + yen);
```

```
}
```

```
}
```

```
package currencyconversion;
```

```
import java.util.*;
```

```
class converter
```

```
{
```

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

```
    {
```

```
        Scanner s = new Scanner(System.in);
```

```
        int choice, ch;
```

```
        currency c = new currency();
```

```
        do
```

```
        {
```

```
            System.out.println("1. dollar to rupee");
```

```
            System.out.println("2. rupee to dollar");
```

```
            System.out.println("3. Euro to rupee");
```

```
System.out.println("4. Rupee to Euro");  
System.out.println("5. Yen to Rupee");  
System.out.println("6. Rupee to Yen");  
System.out.println("Enter your Choice");
```

```
choice = s.nextInt();
```

```
switch(choice)
```

```
{
```

```
    case 1:
```

```
    {
```

```
        c.dollartorupee();
```

```
        break;
```

```
    }
```

```
    case 2: {
```

```
        c.rupeetodollar();
```

```
        break;
```

```
    }
```

```
    case 3: {
```

```
        c.eurotorupee();
```

```
        break;
```

```
    }
```

```
    case 4: {
```

```
        c.rupeetoeuro();
```

```
        break; }
```

case 5:

```
{  
    c. you to rupee();  
    break;  
}
```

case 6:

```
{  
    c. rupee to you();  
    break;  
}
```

```
}
```

```
System.out.println("Enter 0 to quit and 1 to  
continue");
```

```
ch = s.nextInt();
```

```
} while(ch == 1);
```

```
}
```

```
}
```

Run: converter ×

"C:\Program Files\Amazon Corretto\jdk17.0.2_8\bin\java.exe" "

1.Dollar to rupee

2.Rupee to dollar

3.Euro to rupee

4 Rupee to Euro

5.Yen to rupee

6.Rupee to Yen

Enter your choice

1

Enter dollars to convert into Rupees:

100

Dollar =100.0equal to INR=7800.0

Enter 0 to quit and 1 to continue

1

1.Dollar to rupee

2.Rupee to dollar

3.Euro to rupee

4 Rupee to Euro

5.Yen to rupee

6.Rupee to Yen

Enter your choice

2

Enter Rupee to convert into Dollars:

7800

Rupee =7800.0equal to Dollars=116.41791044776119

Enter 0 to quit and 1 to continue

Ques 4

```
Package General;
```

```
public class employee;
```

```
{
```

```
    protected int empID = 20051523;
```

```
    private String eName = "Nikhil";
```

```
    public double earnings (int basic)
```

```
    {
```

```
        double totalEarn = basic + 0.8 * basic + 0.15 *  
                                basic;
```

```
        System.out.println ("EmpID : " + empID);
```

```
        return totalEarn;
```

```
    }
```

```
}
```

```
package Marketing;
```

```
import General.*;
```

```
public class sales extends employee
```

```
{
```

```
    public double allowance (double earning)
```

```
    {
```

```
        double allowance = 0.05 * earning;
```

```
        return allowance;
```

```
    } }
```

package Marketing;

public class Demo

{
 public static void main (String[] args)

{

Sales obj = new Sales ();

double totalEarn = obj.earnings (50000);

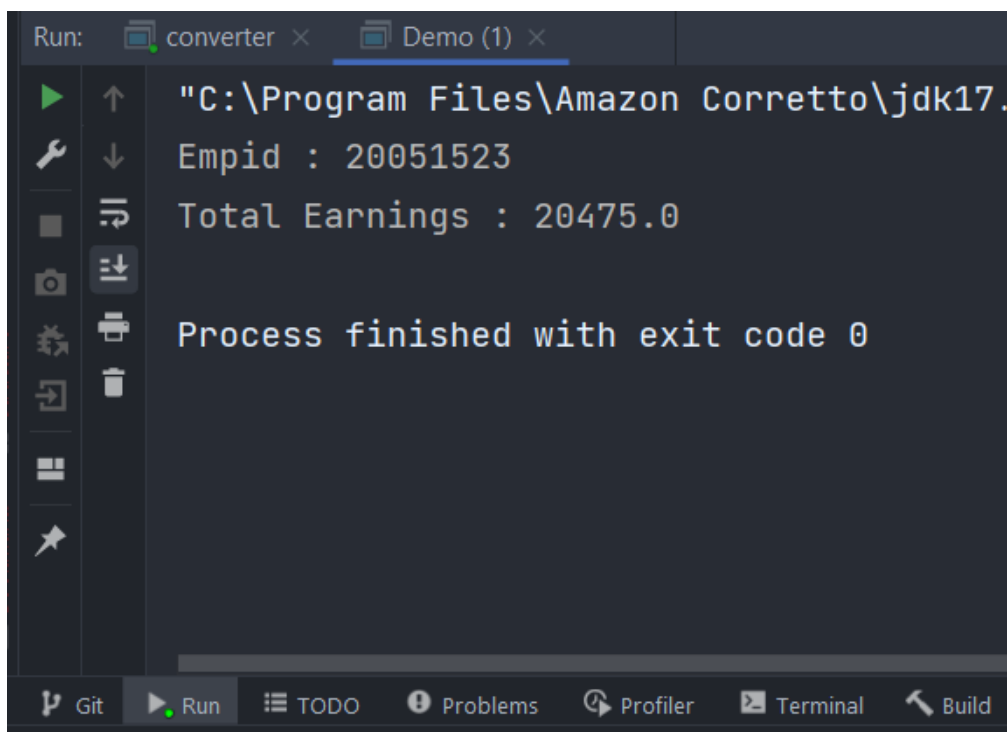
double totalEarn = allowance (totalEarn);

double totalEarn = ~~total~~totalEarn + totalAllowe;

System.out.println ("Total Earning : " + totalEarn);

}

}



```
Run: converter x Demo (1) x
"C:\Program Files\Amazon Corretto\jdk17.
Empid : 20051523
Total Earnings : 20475.0
Process finished with exit code 0
```

The screenshot shows an IDE interface with a terminal window. The terminal output is as follows:

```
Run: converter x Demo (1) x
"C:\Program Files\Amazon Corretto\jdk17.
Empid : 20051523
Total Earnings : 20475.0
Process finished with exit code 0
```

The IDE's bottom bar includes buttons for Git, Run, TODO, Problems, Profiler, Terminal, and Build.