LAB # 11

PACKAGES

LAB TASK

1. Create a package name **bank_account**, containing two classes named as **Calculate_interest** for customers and **Calculate_special_Interest** for employees respectively. Each class should carry a method of calculating the amount.

Formulae:

interestAmount = amount * rate/100;
special_interestAmount = (amount * rate/100) + 100;

Main class :

```
package Bank_ACCOUNT123;

import  java.util.Scanner;
public class Bank_ACCOUNT123 {



   public static void main(String[] args) {

       System.out.println("\nBANK ACCOUNT FOR
EMPLOYES AND CUSTOMERS:");
       System.out.print("ENTER AMOUNT NUMBER
:");

       Scanner sc=new Scanner(System.in);
       int a=sc.nextInt();

       System.out.print("ENTER RATE NUMBER :");
       int b=sc.nextInt();

       Calculate_special_interest  values=new
Calculate_special_interest();
       values.Calculateamount2(a,b);
       values.display2();

       calculate_interest values1=new
calculate_interest();
      values1.Calculateamount(a, b);
       values1.display();




   }
```

```
}
```

Class Calculate_special_interest:

```
package Bank_ACCOUNT123;


public class Calculate_special_interest {

    int amount;
    int rate ;
    float special_interestAmount;
    public void Calculateamount2(int a ,int r){
    amount=a;
    rate=r;
    special_interestAmount=(a*r/100)+100;

    }
 public  void display2(){
     System.out.println("\nformula of special interest
amount  :(a*r/100)+100 ".toUpperCase());
       System.out.println("THE SPECIAL INTEREST
AMOUNT  FOR EMPLOYES
:"+special_interestAmount);

   }


}
```

Class calculate_interest:

```
package Bank_ACCOUNT123;

public class calculate_interest {

    int amount;
    int rate ;
    float interestAmount;
   public void Calculateamount(int a ,int r){
    amount=a;
    rate=r;
    interestAmount=(a*r/100);
    }
 public  void display(){
     System.out.println("\nformula of  interest amount
:(a*r/100) ".toUpperCase());
       System.out.println("THE INTEREST AMOUNT
FOR CUSTOMERS :"+interestAmount);

   }
}
```

Output :

```
BANK ACCOUNT FOR EMPLOYES AND CUSTOMERS:

ENTER AMOUNT NUMBER :100
ENTER RATE NUMBER :200

FORMULA OF SPECIAL INTEREST AMOUNT  :(A*R/100)+100
THE SPECIAL INTEREST AMOUNT  FOR EMPLOYES  :300.0

FORMULA OF  INTEREST AMOUNT  :(A*R/100)
THE INTEREST AMOUNT FOR CUSTOMERS :200.0
BUILD SUCCESSFUL (total time: 7 seconds)
```

2. Import the bank_account package in to a class name **Calculation_record** and display the calculated amount of interest given to the customer and the employees respectively

Package calculation record :
Class calculation record:
package Bank_ACCOUNT123;

```
package calcculation_record;

import java.util.Scanner;
import  Bank_ACCOUNT123.*;
public class Calcculation_record {


    public static void main(String[] args) {

        System.out.print("ENTER AMOUNT NUMBER :");

        Scanner sc=new Scanner(System.in);
        int a=sc.nextInt();

        System.out.print("ENTER RATE NUMBER :");
        int b=sc.nextInt();

        Calculate_special_interest  values=new Calculate_special_interest();
        values.Calculateamount2(a,b);
        values.display2();

        calculate_interest values1=new calculate_interest();
       values1.Calculateamount(a, b);
        values1.display();
    }

}
```

Output :

```
IMPORTING ONE PACKAGE TO ANOTHER

BANK ACCOUNT FOR CUSTOMERS AND EMPLOYES :

ENTER AMOUNT NUMBER :340
ENTER RATE NUMBER :550

FORMULA OF SPECIAL INTEREST AMOUNT  :(A*R/100)+100
THE SPECIAL INTEREST AMOUNT  FOR EMPLOYES  :1970.0

FORMULA OF  INTEREST AMOUNT  :(A*R/100)
THE INTEREST AMOUNT FOR CUSTOMERS :1870.0
BUILD SUCCESSFUL (total time: 8 seconds)
```