USN: 1BM19CS143

NAME: Sannidhi Kasturi

# Lab Record

#### **LAB PROGRAM 1:**

Develop a Java program that prints all real solutions to the quadratic equation  $ax^2 +bx+c = 0$ . Read in a, b, c and use the quadratic formula. If the discriminate  $b^2$ -4ac is negative, display a message stating that there are no real solutions.

#### **Handwritten Solution:**



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_	print most 1, nort 2.
_	Direction 2)
	if (dot== 0)
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_	phint treat 1.
-	<b>J</b>
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En	print "Invalid Input".
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En	print "Invalid Input".
En	print "Invalid Input".
En	enter the values of a,b, and c?
En	print "Invalid Input".  d.  eple Output.  Enter the values of a,b, & and & ?  2 5
En	enter the values of a,b, and c?
En	print "Invalid Input".  d.  eple Output.  Enter the values of a,b, & and & ?  2 5

#### **Program File:**

```
QuadraticEquation - Notepad
File Edit Format View Help
//Java Program to find the roots of the given quadratic equation by the user.
import java.util.*;
class QuadraticEquation {
public static void main(String args[]){
Scanner in=new Scanner(System.in);
int a,b,c,det;
System.out.println("Enter the values of a,b and c:");
a=in.nextInt();
b=in.nextInt();
c=in.nextInt();
det=b*b-4*a*c;
double r1,r2;
if(det>0){
r1 = (-b + Math.sqrt(det))/(2*a);
r2=(-b-Math.sqrt(det))/(2*a);
System.out.println("Root 1:"+r1+"\nRoot 2:"+r2);
else if(det==0) {
r1=-b/(2*a);
System.out.println("Both the roots are same and equal to:"+r1);
else if(det < 0) {
System.out.println("Real roots do not exist.");
}
System.out.println("Invalid input!");
```

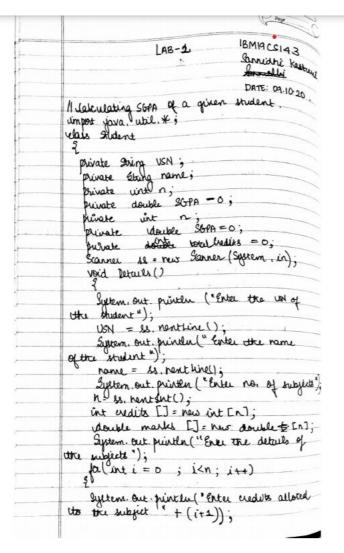
## **Output:**

```
C:\Users\Sanny\Desktop\San\3rd Semester\OOJ>javac QuadraticEquation.java
C:\Users\Sanny\Desktop\San\3rd Semester\OOJ>java QuadraticEquation
Enter the values of a,b and c:
3
5
1
Root 1:-0.2324081207560018
Root 2:-1.434258545910665
C:\Users\Sanny\Desktop\San\3rd Semester\OOJ>
```

# **LAB PROGRAM 2:**

Develop a Java program to create a class **Student** with members **usn**, **name**, **an array credits** and **an array marks**. Include methods to accept and display details and a method to calculate SGPA of a student.

#### **Handwritten Solution:**



```
what [i] = se, neuther ();
System. Out. printles (" Enter marks in the whether "+ (1+1));
 maks [i] = & rene tot ();
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said laborate (but want, double mark, int;)
  total redita = total redit + ardit;
 2 (mark) = 90 ks mark <=100)
Sopa = SOPA + (10 * seedit);
 alse if (mark >=80 &2 mark <=89)
 SGPA = SGPA + (9* wedit);

whe if (mark)= 40 & mark <= 79)

SGPA = SGPA + (8* wedit);
  else if (mark > = 60 bx mark < = 69)
            SGPA + ( * udit);
 ule it (mark >= 50 see mark <= 59)
SSPA = SGPA + (6* wedit);
 sopa = sopa + (5x cudit);
   Syrem. But. println ("Failed in subject"+(j+1);
void Tisplay()
   System out, puntly ("Details of the Student");

Stelem out, printly ("Name: "+ rame);

lykem, out. printly "USN: "+ USN);
System out printle ("USN:"+USN);

System out printle ("SGPA of student"

+ (SGPA / total Cudda);
```

		Classarate Dete
		1996
		class Main
1		\$
-		public Hatic word main (String args [])
		student \$1 = new Student ();
4		SI. Details ();
ļ		Al. Display();
<b>!</b>		1
-		3
		Algorithm:
	1.	Start.
		direct lich show no of unbects and the
		idetails of the subjects in credits and marks cas USN, name, n, audits[i], marks[i]
		cas USN, name, n. audits[i], marks[i]
	3	Set total Credits = total Credit + Credit.
	Д.	Set SGPA = SGPA + (credit * number) where
Ī		the number = 10,9,8,6,7, \$ sacc. to market
	5.	il number = 5
	5.	Bue print "failed in Subject".
	G	Print Betails of the Indent, name, USN
		and the valuelated SOPA of the student.
1	-	End

	8 2 2 2 11 1 2 2 2
	Enter USN of the student.
	Enter rame of the student.
	Enter no. of subjects.
+	Enter details of the subjects:
	A.
	Enter masks in subject 1.
	Enter nedits alloted in subject 2
	Enter marks in subject 2
	Details of the student USN: 1BM19CS143
	SGPA of student: 10.0.

Program File:

```
Main - Notepad
File Edit Format View Help
import java.util.*;
class Student
private String USN;
private String name;
private int n;
private double SGPA = 0;
private int totalCredits = 0;
Scanner ss = new Scanner(System.in);
void Details()
System.out.println("Enter USN of the student");
USN = ss.nextLine();
System.out.println("Enter Name of the student");
name = ss.nextLine();
System.out.println("Enter no of subjects");
n = ss.nextInt();
int credits [] = new int [n];
double marks[] = new double[n];
System.out.println("Enter details of the subjects:");
for(int i=0;i < n;i++)
System.out.println("Enter credits allotted to the subject "+(i+1));
credits[i] = ss.nextInt();
System.out.println("Enter marks in the subject "+(i+1));
marks[i] = ss.nextInt();
Calculate(credits[i],marks[i],i);
```

void Calculate(int credit,double mark,int j)

totalCredits = totalCredits + credit;

```
Main - Notepad
```

```
File Edit Format View Help
if(mark>=90&&mark<=100)
SGPA = SGPA + (10*credit);
else if(mark>=80 && mark<=89)
SGPA = SGPA + (9*credit);
else if(mark\geq=70&&mark\leq=79)
SGPA = SGPA + (8*credit);
else if(mark\geq=60&&mark\leq=69)
SGPA = SGPA + (7*credit);
else if(mark>=50 && mark<=59)
SGPA = SGPA + (6*credit);
else if(mark>=40&&mark<=49)
SGPA = SGPA + (5*credit);
System.out.println("Failed in subject "+(j+1));
void Display()
System.out.println("Details of the Student");
System.out.println("Name:"+name);
System.out.println("USN: "+USN);
System.out.println("SGPA of student "+(SGPA/totalCredits));
class Main
public static void main(String args∏)
Student s1 = new Student();
s1.Details();
s1.Display();
}
```

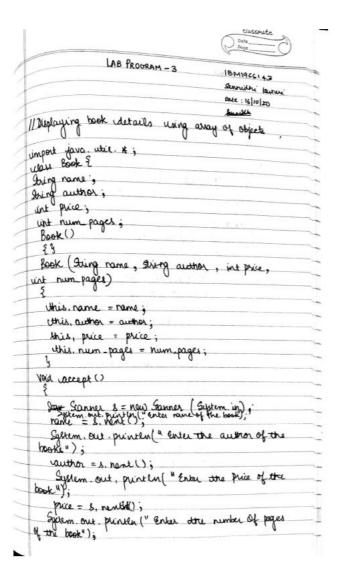
#### **Output:**

```
C:\Users\Sanny\Desktop\San\3rd Semester\00J>javac Main.java
C:\Users\Sanny\Desktop\San\3rd Semester\00J>java Main
Enter USN of the student
1BM19CS143
Enter Name of the student
Sannidhi
Enter no of subjects
Enter details of the subjects:
Enter credits allotted to the subject 1
Enter marks in the subject 1
90
Enter credits allotted to the subject 2
Enter marks in the subject 2
80
Enter credits allotted to the subject 3
Enter marks in the subject 3
89
Enter credits allotted to the subject 4
Enter marks in the subject 4
90
Details of the Student
Name :Sannidhi
USN: 1BM19CS143
SGPA of student 9.5625
```

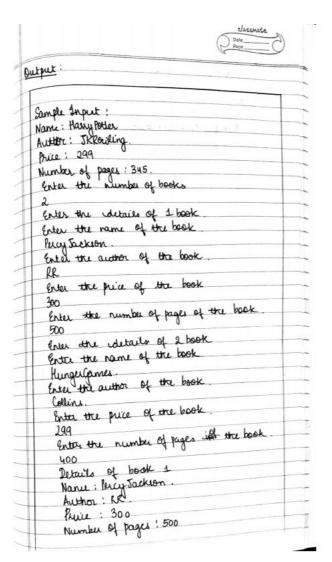
# **LAB PROGRAM 3:**

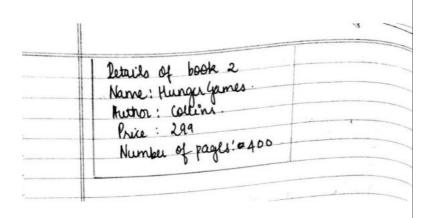
Create a class Book which contains four members: name, author, price, num\_pages. Include a constructor to set the values for the members. Include methods to set and get the details of the objects. Include a toString() method that could display the complete details of the book. Develop a Java program to create n book objects.

#### **Handwritten Solution:**



1.41)
 hum parks = b, nentitutly
g to string ()
public String to String ()
public String to String ()  return ("Name: "+ name + " \n Author: "+ author;  return ("Name: "+ price + " In Number of Pages: "+ num  " \n Price: "+ price + " In Number of Pages: "+ num  " \n Price: "+ price + " In Number of Pages: "+ num  " \n Price: "+ price + " In Number of Pages: "+ num  " \n Price: "+ price + " In Number of Pages: "+ num  " \n Price: "+ price + " In Number of Pages: "+ num  " \n Price: "+ price + " In Number of Pages: "+ num  " \n Price: "+ price + " \n Price: "+ price + " \n Price: "+ number of Pages: "+ number of Pag
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Book b[] = new Book [n];
And (set since it as litt)
for (int i=0; i\n; i+t)
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buje no Book ();
System. out. println ( Enter the details of
+(i+1)+ "book");
bli], occupt();
1
glacinti=0; icn; i+t)
Syciem. out println ("Details of book" + (i+1)), System, out println (b[i]);
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2 syriem, the printer ( OLIJ)
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19





#### **Program File:**

```
BookMain - Notepad
File Edit Format View Help
import java.util.*;
class Book {
String name;
String author;
int price;
int num_pages;
Book()
{}
Book(String name, String author, int price, int num_pages)
this.name=name;
this.author=author;
this.price=price;
this.num_pages=num_pages;
void accept()
Scanner s=new Scanner(System.in);
System.out.println("Enter the name of the book");
name=s.nextLine();
System.out.println("Enter the author of the book");
author=s.nextLine();
System.out.println("Enter the price of the book");
price=s.nextInt();
System.out.println("Enter the number of pages of the book");
num_pages=s.nextInt();
public String toString()
return ("Name: "+name + "\n" + "Author: "+author + "\n" + "Price: "+price + "\n" + "Number of pages: "+num_pages );
class BookMain {
public static void main(String ss∏)
Scanner a=new Scanner(System.in);
Book b1=new Book("HarryPotter","JKRowling",299,345);
System.out.println("Sample input:\n"+b1);
System.out.println("Enter the number of books");
int n=a.nextInt();
Book b∏=new Book[n];
for(int i=0;i< n;i++)
b[i]=new Book();
System.out.println("Enter the details of "+(i+1)+" book");
b[i].accept();
for(int i=0; i < n; i++)
System.out.println("Details of book "+(i+1));
System.out.println(b[i]);
```

## **Output:**

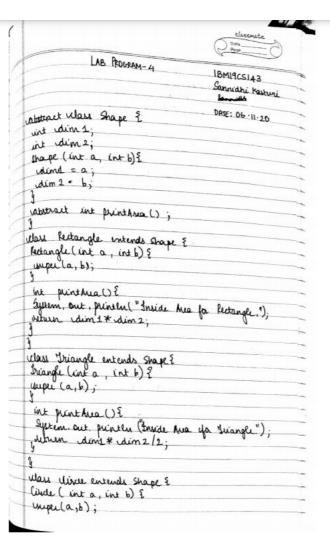
```
C:\Users\Sanny\Desktop\San\3rd Semester\OOJ>javac BookMain.java
C:\Users\Sanny\Desktop\San\3rd Semester\OOJ>java BookMain
Sample input:
Name: HarryPotter
Author: JKRowling
Price: 299
Number of pages: 345
Enter the number of books
Enter the details of 1 book
Enter the name of the book
Hunger Games
Enter the author of the book
Collins
Enter the price of the book
299
Enter the number of pages of the book
400
Details of book 1
Name: Hunger Games
Author: Collins
Price: 299
Number of pages: 400
```

# **LAB PROGRAM 4:**

Develop a Java program to create an abstract class named Shape that contains two integers and an empty method named printArea(). Provide three classes named Rectangle, Triangle and

Circle such that each one of the classes extends the class Shape. Each one of the classes containonly the method printArea() that prints the area of the given shape.

# **Handwritten Program:**



	Pege
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	System. out. printle ( 3 min 2; une 22/3 * dim 1 * dim 2;
	22/7 * dim 1 1
	9 8 (7)}
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	ulas Abetrack Meas &  public static world main (string ares []) }  public static world main (string ares []);
	public static nord main (stung 10, 10);  Pedangle r = new thrangle (4,5);  thringle t = new throngle (4,5);
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	Shape si
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	Ma is 48.

#### **Program File:**

```
AbstractAreas - Notepad
File Edit Format View Help
abstract class Shape {
int dim1;
int dim2;
Shape(int a,int b) {
\dim 1=a;
\dim 2=b;
abstract int printArea();
class Rectangle extends Shape {
Rectangle(int a,int b) {
super(a,b);
int printArea() {
System.out.println("Inside Area for Rectangle.");
return dim1*dim2;
class Triangle extends Shape {
Triangle(int a,int b) {
super(a,b);
int printArea() {
System.out.println("Inside Area for Triangle.");
return dim1*dim2/2;
class Circle extends Shape {
Circle(int a,int b) {
super(a,b);
int printArea() {
System.out.println("Inside Area for Circle.");
return 22/7*dim1*dim1;
class AbstractAreas{
public static void main(String args∏){
Rectangle r=new Rectangle(10,10);
Triangle t=new Triangle(4,5);
Circle c=\text{new Circle}(4,0);
Shape s;
System.out.println("Area is"+s.printArea());
System.out.println("Area is"+s.printArea());
System.out.println("Area is"+s.printArea());
```

# **Output:**

C:\Users\Sanny\Desktop\San\3rd Semester\00J>javac AbstractAreas.java
C:\Users\Sanny\Desktop\San\3rd Semester\00J>java AbstractAreas
Inside Area for Rectangle.
Area is100
Inside Area for Triangle.
Area is10
Inside Area for Circle.
Area is48

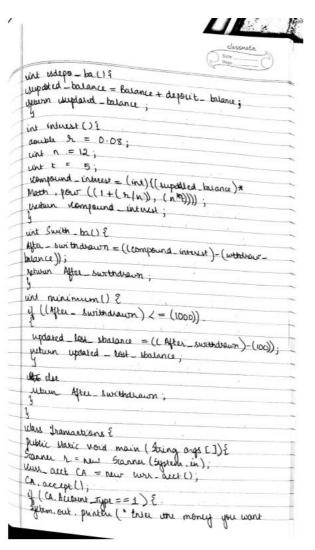
# **LAB PROGRAM 5:**

Develop a Java program to create a class Bank that maintains two kinds of account for its customers, one called savings account and the other current account. The savings account provides compound interest and withdrawal facilities but no cheque book facility. The current account provides cheque book facility but no interest. Current account holders should also maintain a minimum balance and if the balance falls below this level, a service charge is imposed. Create a class Account that stores customer name, account number and type of account. From this derive the classes Curr-acct and Sav-acct to make them more specific to their requirements. Include the necessary methods in order to achieve the following tasks: • Accept deposit from customer and update the balance. • Display the balance. • Compute and deposit interest • Permit withdrawal and update the balance • Check for the minimum balance, impose penalty if necessary and update the balance

#### **Handwritten Program:**

	classmate Date Steps
LAB PROFRAM-5	
	Sarridhi Kashuri
import yava. util. *;	DATE : 06-11-20
class Bank	
3	
int deposit_balance,	- 3
unt withdraw balance;	
String customerrane,	
Juing Account Number;	
unt Account-Type;	1. 1
int Balance = 27ego;	
void vaccept ()	21
5	
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Allount-Type = s nent Int ();	
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tautomerane);	kr. 1 * +
System out printer ( Account No	DM BLA
Account Number);	00 L "+
Account Number);	pr.
Account - Type);	
4 313	
1	

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	Page
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	unt updated_balance;
-	int After whithdrawn,
	int updated_lost_characc;
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	riturn updated talance;
	int c with ba() ?
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	Leturn After withdrawn;
	unt minimum ()
	1
	if (( After - unitedeum) <= (2000))
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low your total balance is but us the money your u	INC VS WITTE
un rupes	
10 the your withdrawal of New your total belong	10
the your warmen	KS-28080

	Page
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,	whated to we wanted
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	balance 28080
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	Enter the customer name
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	Enter the Account type
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	ACCOUNT NUMBER.
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	() . what balance the
	Enter the money you want to withdraw
	in Swings Account
	10 All 10
	After your withdrawal of 120
	Now you total balance is RS-41829
	After shocking if you have minimum
	balance or not, your updated balance
	us RS-41829.

#### **Program File:**

```
Transactions - Notepad
File Edit Format View Help
import java.util.*;
class Bank
int deposit_balance;
int wthdraw_balance;
String customername;
String Account_Number;
int Account_Type;
int Balance=27890;
void accept()
Scanner s=new Scanner(System.in);
System.out.println("Enter the customer name\n");
customername=s.nextLine();
System.out.println("Enter the Account Number\n");
Account_Number=s.nextLine();
System.out.println("Enter the Account type:\n1.Current Account\n2.Savings Account\n");
Account_Type=s.nextInt();
void display()
System.out.println("CUSTOMER NAME: "+customername);
System.out.println("ACCOUNT NUMBER: "+Account_Number);
System.out.println("ACCOUNT TYPE : "+Account_Type);
}
class curr_acct extends Bank{
int updated_balance;
int After_cwithdrawn;
```

```
Transactions - Notepad
File Edit Format View Help
int updated_lost_cbalance;
int cdepo_ba() {
updated_balance=Balance+deposit_balance;
return updated_balance;
int cwith_ba() {
After_cwithdrawn=((updated_balance)-(wthdraw_balance));
return After_cwithdrawn;
int minimum()
if((After\_cwithdrawn) \leq = (2000))
updated_lost_cbalance=((After_cwithdrawn)-(200));
System.out.println("you have minimum balance below 2000 so you have lost 200 rs");
return updated_lost_cbalance;
}
else
return After_cwithdrawn;
}
```

class sav\_acct extends Bank{

int supdated\_balance;

```
Transactions - Notepad
File Edit Format View Help
int After_swithdrawn;
int updated_lost_sbalance;
int compound_interest;
int\ sdepo\_ba()\{
supdated_balance=Balance+deposit_balance;
return supdated_balance;
int interest()
double r=0.08;
int n=12;
int t=5;
compound\_interest = (int)((supdated\_balance)*(Math.pow((1+(r/n)),(n*t))));
return compound_interest;
}
int Swith_ba() {
After_swithdrawn=((compound_interest)-(wthdraw_balance));
return After_swithdrawn;
int minimum()
if((After_swithdrawn)<=(1000))
updated_lost_sbalance=((After_swithdrawn)-(100));
return updated_lost_sbalance;
}
```

return After\_swithdrawn;

```
Transactions - Notepad
File Edit Format View Help
class Transactions {
public static void main(String args[]) {
Scanner r=new Scanner(System.in);
curr_acct CA=new curr_acct();
CA.accept();
if(CA.Account_Type==1) {
System.out.println("Enter the money you want to deposit in Current account in rupees");
CA.deposit_balance=r.nextInt();
CA.display();
System.out.println("After your deposition of "+CA.deposit_balance+"\nNow your total balance is RS-"+CA.cdepo_ba());
System.out.println("Enter the money you want to withdraw in rupees");
CA.wthdraw_balance=r.nextInt();
System.out.println("After your withdrawal of "+CA.wthdraw_balance+"\nNow your total balance is RS-"+CA.cwith_ba());
System.out.println("After checking if you have minimum balance or not, your updated total balance is RS-"+CA.minimum());
else
System.out.println("INVALID!");
sav_acct SA=new sav_acct();
SA.accept();
if(SA.Account_Type==2){
System.out.println("Enter the money you want to deposit in Savings account in rupees");
SA.deposit_balance=r.nextInt();
SA.display();
System.out.println("After your deposition of "+SA.deposit_balance+"\nNow your total balance is RS-"+SA.sdepo_ba());
System.out.println("After interest your updated balance is RS-"+SA.interest());
System.out.println("Enter the money you want to withdraw in rupees");
SA.wthdraw_balance=r.nextInt();
System.out.println("After your withdrawal of RS-"+SA.wthdraw_balance+"\nNow your total balance is RS-"+SA.Swith_ba());
System.out.println("After checking if you have minimum balance or not, your updated total balance is RS-"+SA.minimum());
else
System.out.println("INVALID!");
```

#### **Output:**

```
Command Prompt
C:\Users\Sanny\Desktop\San\3rd Semester\00J>javac Transactions.java
C:\Users\Sanny\Desktop\San\3rd Semester\OOJ>java Transactions
Enter the customer name
Sannidhi Kasturi
Enter the Account Number
2343
Enter the Account type:
1.Current Account
2.Savings Account
Enter the money you want to deposit in Current account in rupees
CUSTOMER NAME : Sannidhi Kasturi
ACCOUNT NUMBER : 2343
ACCOUNT TYPE : 1
After your deposition of 1000
Now your total balance is RS-28890
Enter the money you want to withdraw in rupees
50
After your withdrawal of 50
Now your total balance is RS-28840
After checking if you have minimum balance or not, your updated total balance is RS-28840
Enter the customer name
Anne Wills
Enter the Account Number
4351
Enter the Account type:
1.Current Account
2.Savings Account
Enter the money you want to deposit in Savings account in rupees
3000
CUSTOMER NAME : Anne Wills
```

```
ACCOUNT NUMBER: 4351
ACCOUNT TYPE: 2
After your deposition of 3000
Now your total balance is RS-30890
After interest your updated balance is RS-46021
Enter the money you want to withdraw in rupees
100
After your withdrawal of RS-100
Now your total balance is RS-45921
After checking if you have minimum balance or not, your updated total balance is RS-45921
```