

LAB1_QuadraticEquatino

```
import java.util.Scanner;

class QuadraticEquations
{
    public static void main(String args[])
    {
        double a,b,c,D;
        double r1,r2;

        Scanner in = new Scanner(System.in);

        System.out.println("Enter the constants a,b and c of the quadratic equation
a(x)^2+b(x)+c=0 : ");

        a = in.nextDouble();
        b = in.nextDouble();
        c = in.nextDouble();

        System.out.println();

        System.out.println("Input Quadrature Equation : "+a+"(x)^2 + "+b+"(x) + "+c+" = 0");

        System.out.println();

        D = (b*b)-(4*a*c);

        if(D>0)
        {
            System.out.println("Roots are real and unequal since Discriminant = "+D);
            r1 = (-b + Math.sqrt(D))/(2*a);
            r2 = (-b - Math.sqrt(D))/(2*a);
            System.out.println();
            System.out.println("Roots of the quadratic equation are "+r1+" and "+r2);
        }
    }
}
```

```

    }

    else if(D==0)

    {

        System.out.println("Roots are real and equal since Discriminant = "+D);

        r1 = r2 = (-b)/(2*a);

        System.out.println();

        System.out.println("Roots of the quadratic equation are "+r1+" and "+r2);

    }

    else

    {

        System.out.println();

        System.out.println("Roots are unreal since Discriminant = "+D);

    }

}

}

```

```

Enter the constants a,b, and c for the quadratic equation ax^2 + bx + c
1
-2
1
Roots are real and equal.0.0
Roots of the quadratic equation are 1.0 and 1.0

```

```

-----
(program exited with code: 0)
```

```

Press any key to continue . . . ■
```

IBNOS19CS191

```
import java.util.Scanner;  
class quadratic_equation
```

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

```
        double a, b, c, sum, root1, root2;
```

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

```
        System.out.println ("Enter the constants a, b and c for the  
        quadratic expression  $ax^2 + bx + c$ ");
```

```
        a = in.nextDouble();
```

```
        b = in.nextDouble();
```

```
        c = in.nextDouble();
```

```
        sum = (b * b) - (4 * a * c);
```

```
        if (sum >= 0)
```

```
{
```

```
            System.out.println ("Roots are real and unequal " + sum);
```

```
            root1 = (-b + Math.sqrt(sum)) / (2 * a);
```

```
            root2 = (-b - Math.sqrt(sum)) / (2 * a);
```

```
            System.out.println ("Roots are real and unequal " + root1 +  
                root2);
```

```
}
```

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else if (sum == 0)
{System.out.println ("Roots are real and equal." + sum);
root1 = root2 = (-b) / (2*a);System.out.println ("Roots of the quadratic equation are"
+ root1 "and" + root2); // sum);

}

else if (sum < 0)
{

System.out.println ("Roots are unreal." + sum);

}

{

LAB2_StudentSGPA

```
import java.util.Scanner;

class Student{
    Scanner ss= new Scanner(System.in);

    String USN;
    String Name;
    int credits[] = new int[5];
    double marks[] = new double[5];
    int points[] = new int[5];
    double SGPA;
    int totalCredits= 0;

    void getDetails(){
        System.out.println("Enter the Student USN: ");
        USN= ss.nextLine();
        System.out.println("Enter the name of the Student: ");
        Name= ss.nextLine();
        for(int i=0;i<5;i++){
            System.out.println("Enter the amount of Credits for Subject " + (i+1) + ": ");
            credits[i]= ss.nextInt();
            totalCredits+= credits[i];
            System.out.println("Enter the Marks obtained by the student for Subject " + (i+1) + " out of 100: ");
            marks[i]= ss.nextDouble();
        }
    }

    void printDetails(){
        System.out.println("Student USN: " + USN);
        System.out.println("Student Name: " + Name);
        for(int i=0;i<5;i++){
    }
```

```
System.out.println("Subject " + (i+1) + " :      Credits: " + credits[i] + " --> Marks: " + marks[i]);  
}  
  
System.out.println("SGPA of " + Name + " is: " + (double)(SGPA/totalCredits));  
}  
  
void sumSGPA(){  
  
for(int i=0;i<5;i++){  
  
    if(marks[i] >= 91){  
  
        points[i] = 10;  
  
    }  
  
    else if(marks[i] >= 81){  
  
        points[i] = 9;  
  
    }  
  
    else if(marks[i] >= 71){  
  
        points[i] = 8;  
  
    }  
  
    else if(marks[i] >= 61){  
  
        points[i] = 7;  
  
    }  
}
```

```
    }

    else if(marks[i] >= 51){

        points[i] = 5;

    }

    else if(marks[i] >= 41){

        points[i] = 4;

    }

    else{

        points[i] = 0;

    }

}

SGPA += (points[i]*credits[i]);

}

}

}

public class LAB2 {

    public static void main(String args[]){

        Student s1= new Student();

        s1.getDetails();

        s1.sumSGPA();

        s1.printDetails();

    }

}
```

```
C:\Users\adity\Desktop\3-D\OOJ\OOJ LAB>java LAB2
Enter the Student USN:
1BM19CS191
Enter the name of the Student:
ADITYA SATISH KUMAR
Enter the amount of Credits for Subject 1: 5
Enter the Marks obtained by the student for Subject 1 out of 100:
93
Enter the amount of Credits for Subject 2: 4
Enter the Marks obtained by the student for Subject 2 out of 100:
84
Enter the amount of Credits for Subject 3: 5
Enter the Marks obtained by the student for Subject 3 out of 100:
88
Enter the amount of Credits for Subject 4: 5
Enter the Marks obtained by the student for Subject 4 out of 100:
99
Enter the amount of Credits for Subject 5: 5
Enter the Marks obtained by the student for Subject 5 out of 100:
95
```

Enter the amount of Credits for Subject 5:

5

Enter the Marks obtained by the student for Subject 5 out of 100:

95

Student USN: 1BM19CS191

Student Name: ADITYA SATISH KUMAR

Subject 1 : Credits: 5 --> Marks: 93.0

Subject 2 : Credits: 4 --> Marks: 84.0

Subject 3 : Credits: 5 --> Marks: 88.0

Subject 4 : Credits: 5 --> Marks: 99.0

Subject 5 : Credits: 5 --> Marks: 95.0

SGPA of ADITYA SATISH KUMAR is: 9.625

```
C:\Users\adity\Desktop\3-D\OOJ\OOJ LAB>
```

Aditya Salish Kumar

```
import java.util.Scanner  
class Student {
```

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

```
    String USN;
```

```
    String Name;
```

```
    int credits[] = new int [5];
```

```
    double marks[] = new double [5];
```

```
    int points[] = new int [5];
```

```
    double SGPA;
```

```
    int totalCredits = 0;
```

```
    void getDetails()
```

```
        System.out.println ("Enter the Student USN : ");
```

```
        USN = ss.nextLine();
```

```
        System.out.println ("Enter the name of the Student : ");
```

```
        Name = ss.nextLine();
```

```
    for (int i = 0; i < 5; i++) {
```

```
        System.out.println ("Enter the amount of credits : ");
```

```
        credits[i] = ss.nextInt();
```

```
        System.out.println ("Enter the marks obtained in ")
```

```
        for subject" + (i+1) + "out of 100 :
```

```
        marks[i] = ss.nextDouble();
```

```
}
```

Aditya Satish Kumar

void printDetails () {

System.out.println ("Student UIN: " + UIN);

System.out.println ("Student Name: " + Name);

for (int i = 0; i < 5; i++) {

System.out.println ("Subject " + (i + 1) + " : Credits:

+ credits[i] + " -> Marks: "

+ marks[i]);

}

}

for (int i = 0; i < 5; i++) {

if (marks[i] >= 91) {

points[i] = 10;

}

else if (marks[i] >= 81) {

points[i] = 9;

}

else if (marks[i] >= 71) {

points[i] = 8;

}

else if (marks[i] >= 61) {

points[i] = 7;

}

else if (marks[i] >= 51) {

points[i] = 6;

}

else if (marks[i] >= 41) {

points[i] = 5;

}

Aditya Satish Kumar.

else {

points[i] = 0;

}

GPA += (points[i] * credits[i]);

}

}

public class LAB2 {

public static void main(String args[]) {

Student st = new Student();

st.getDetails();

st.sumGPA();

st.printDetails();

}

}

LAB3_BookDisplay

```
import java.util.*;
import java.lang.*;
class Book{

    String name, author;
    double price;
    int num_pages;
    Scanner in = new Scanner(System.in);

    Book(){
        System.out.println("Enter name of book: ");
        name = in.nextLine();
        System.out.println("Enter name of author: ");
        author = in.nextLine();
        System.out.println("Enter price of book in Rs: ");
        price = in.nextDouble();
        System.out.println("Enter number of pages in the book: ");
        num_pages = in.nextInt();

    }

    void show(){
        System.out.println("Name: " + name);
        System.out.println("Author: " + author);
        System.out.println("Price: " + price);
        System.out.println("Number of pages: " + num_pages);

    }
}
```

```
public String toString(){

    return name + ", By " + author + " for Rs." + price + " and has " +
num_pages + " pages";

}

public static void main(String[] args){

    Scanner in = new Scanner(System.in);

    int n, x;

    System.out.println("Enter number of books to be created: ");

    n = in.nextInt();

    Book B[] = new Book[n];

    for(int i=0;i<n;i++) {

        System.out.println("Book " + (i+1));
        B[i] = new Book();
        System.out.println();

    }

    for(int i=0;i<n;i++) {

        System.out.println("Book " + (i+1));
        System.out.println(B[i]);
        System.out.println();

    }

}
```

```

        }

    do {

        System.out.println("Enter the book number whose details
you want to display: ");

        x = in.nextInt();

    }

    while(x < 1 && x > n);

    B[x-1].show();

}

}

```

Command Prompt

```

C:\JAVA>java Book
Enter number of books to be created:
2
Book 1
Enter name of book:
English Literature
Enter name of author:
Aditya
Enter price of book in Rs:
200
Enter number of pages in the book:
200

Book 2
Enter name of book:
Hindi Literature
Enter name of author:
Satish
Enter price of book in Rs:
300
Enter number of pages in the book:
300

Book 1
English Literature, By Aditya for Rs.200.0 and has 200 pages

Book 2
Hindi Literature, By Satish for Rs.300.0 and has 300 pages

Enter the book number whose details you want to display:
2
Name: Hindi Literature
Author: Satish
Price: 300.0
Number of pages: 300

C:\JAVA>

```

Q

```
Ans import java.util.*;  
import java.lang.*;  
class Book {  
    String name, author;  
    double price;  
    int num_pages;  
    Scanner in = new Scanner(System.in);
```

Book () {

```
    System.out.println("Enter name of book");
```

```
    name = in.nextLine();
```

```
    System.out.println("Enter name of author");
```

```
    author = in.nextLine();
```

```
    System.out.println("Enter price of book");
```

```
    price = in.nextDouble();
```

```
    System.out.println("Enter number of pages in the book");
```

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

{.

void show() {

```
    System.out.println("Name: " + name);
```

```
    System.out.println("Author: " + author);
```

```
    System.out.println("Price: " + price);
```

```
    System.out.println("Number of pages: " + num_pages);
```

}.

Public String toString() {

return name + " By " + author + " for Rs " + price + " and has " + num_pages + " pages";

}.

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

```
Scanner in = new Scanner (System.in);  
int n, x;
```

System.out.println ("Enter the number of books to be created: ");

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

```
Book B[] = new Book [n];
```

```
for (int i=0; i<n; i++) { }
```

```
System.out.println ("Book " + (i+1));
```

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

```
B[i] = new Book ();
```

```
}
```

```
for (int i=0; i<n; i++) { }
```

```
System.out.println ("Book " + (i+1));
```

```
System.out.println (B[i]);
```

```
do { }
```

System.out.println ("Enter the book number whose details you want to display");

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

```
while (x < 1 || x > n);
```

```
{ }
```

LAB4_AbstractClass

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

abstract class Shape{

    Scanner in = new Scanner(System.in);

    int x1, x2;

    Shape(){

        System.out.println("Enter two numbers:");
        System.out.println("");
        x1=in.nextInt();
        x2=in.nextInt();

    }

    abstract void printarea();

}

class Rectangle extends Shape{

    void printarea(){

        System.out.println("Area of Rectangle: " + (x1 * x2));

    }

}

class Triangle extends Shape{
```

```
void printarea(){

    System.out.println("Area of Triangle: " + (x1 * x2)/2);

}

class Circle extends Shape{

    void printarea(){

        System.out.println("Area of Circle 1: " + (3.14 * x1 * x1));
        System.out.println("Area of Circle 2: " + (3.14 * x2 * x2));

    }

}

class Abstract{

    public static void main(String[]args){

        Shape s;

        s = new Rectangle();
        s.printarea();

        s = new Triangle();
        s.printarea();

    }

}
```

```
        s = new Circle();  
        s.printarea();  
  
    }  
  
}
```

```
C:\Users\Aditya\Desktop\3-D\OOJ LAB>javac Abstract.java  
C:\Users\Aditya\Desktop\3-D\OOJ LAB>java abstract  
Error: Could not find or load main class abstract  
  
C:\Users\Aditya\Desktop\3-D\OOJ LAB>java Abstract  
Enter two numbers:  
  
2  
4  
Area of Rectangle: 8  
Enter two numbers:  
  
2  
3  
Area of Triangle: 3  
Enter two numbers:  
  
3  
4  
Area of Circle 1: 28.259999999999998  
Area of Circle 2: 50.24  
  
C:\Users\Aditya\Desktop\3-D\OOJ LAB>D
```

8)
 Ans: import java.util.*;
 import java.lang.*;

abstract class shape {

Scanner in = new Scanner(System.in);

int x1, x2;

Shape() {

System.out.println("Enter two numbers : ");

x1 = in.nextInt();

x2 = in.nextInt();

}

abstract void printarea();

class Rectangle extends Shape {

void printarea() {

System.out.println("Area of Rectangle : " + (x1*x2));

}

class Triangle extends Shape {

void printarea() {

System.out.println("Area of triangle : " + (x1*x2)/2);

}

class Circle extends Shape {

void printarea() {

System.out.println("Area of circle 1 : " + (3.14*x1*x1));

System.out.println("Area of circle 2 : " + (3.14*(x2*x2)));

}

class Abstract {

 public static void main (String [] args) {

 Shape s;

 s = new Rectangle();

 s. paintarea();

 s = new Triangle();

 s. paintarea();

 s = new Circle();

 s. paintarea();

}

}

LAB5_BankDetails

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

class Bank{

    String name, abc;
    int accNo;
    char accType;
    double balance = 0;
    double deposit;
    double chequeAmount;

    Scanner in = new Scanner(System.in);

    void inputData() {

        System.out.println("Enter your account type (Savings/Current):");
        abc = in.nextLine();
        accType = abc.charAt(0);
    }

    void deposit() {

        System.out.println("Enter an amount to deposit: ");
        deposit = in.nextDouble();

        balance += deposit;
        System.out.println("Balance has been updated ");
        System.out.println("");
    }
}
```

```
}
```

```
void viewBalance(){
```

```
    System.out.println("Balance = " + balance);  
    System.out.println("");
```

```
}
```

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

```
    Scanner s = new Scanner(System.in);  
    int x;  
    Bank a1 = new Bank();  
    a1.inputData();
```

```
    if(a1.accType == 'C' || a1.accType == 'c') {
```

```
        Current a2 = new Current();
```

```
        do{
```

```
            System.out.println("WELCOME TO YOUR CURRENT  
ACCOUNT");
```

```
            System.out.println("");  
            System.out.println("(1) Deposit ");  
            System.out.println("(2) Check balance ");  
            System.out.println("(3) Issue Cheque ");  
            System.out.println("(4) Exit");  
            System.out.println("Enter your choice: ");  
            x = s.nextInt();
```

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

switch(x){

    case 1: a2.deposit();
    break;

    case 2: a2.checkBalance();
    break;

    case 3: a2.issueCheque();
    break;

    case 4: System.exit(0);
    break;

    default: System.out.println("ERROR. INVALID
CHOICE.");

}

}

while(x <= 4 && x >= 1);

}

else if (a1.accType == 'S' || a1.accType == 's'){

    Savings a3 = new Savings();

    do{

        System.out.println("WELCOME TO YOUR SAVINGS
ACCOUNT");

        System.out.println("(1) Deposit");

```

```
        System.out.println("(2) View balance");
        System.out.println("(3) Withdraw ");
        System.out.println("(4) Calculate compound interest");
    );
        System.out.println("(5) Exit ");
        System.out.println("Enter your choice: ");
        x = s.nextInt();
        System.out.println("");
        switch(x){
            case 1: a3.deposit();
            break;
            case 2: a3.viewBalance();
            break;
            case 3: a3.balanceAfterWithdrawal();
            break;
            case 4: a3.computeCI();
            break;
            case 5: System.exit(0);
            break;
            default: System.out.println("ERROR.
INVALID CHOICE.");
        }
    }
    while(x <= 5 && x >=1);
}
}
```

```
        else System.out.println("INVALID ACCOUNT TYPE");

    }

}

class Current extends Bank {

    Current(){

        System.out.println("Enter your name: ");
        name = in.nextLine();
        System.out.println("");

        System.out.println("Enter your account number: ");
        accNo = in.nextInt();
        System.out.println("");

        deposit();

    }

    void issueCheque(){

        System.out.println("Enter amount for which cheque is to be issued.");
        chequeAmount = in.nextDouble();
        System.out.println("");

        if(chequeAmount > balance){

            System.out.println("ERROR! Insufficient amount in your account.");

        }

    }

}
```

```
    }

    else{

        balance -= chequeAmount;
        System.out.println("Cheque has been issued
SUCCESSFULLY");

        System.out.println("");


    }

}

void checkBalance(){

    if(balance < 1000){

        System.out.println("Current available balance is lesser than
minimum required balance.");

        balance -= 100;

        System.out.println("Service charge of Rs.100 has been
deducted from your balance.");


    }

    viewBalance();


}

}
```

```
class Savings extends Bank{



    double CI, withdrawalAmount, time;

    Savings(){

        System.out.println("Enter your name: ");
        name = in.nextLine();
        System.out.println("");

        System.out.println("Enter your account number: ");
        accNo = in.nextInt();
        System.out.println("");

        deposit();

    }

    void computeCI() {

        System.out.println("Enter time period: ");
        time = in.nextInt();
        System.out.println("");

        CI = balance * Math.pow(1 + (0.08 / 12), 12 * time) - balance;

        System.out.println("CI = " + CI);
        balance += CI;
        System.out.println("CI has been deposited");

    }

    void balanceAfterWithdrawal(){
```

```
        System.out.println("Enter the amount you want to withdraw:  
");  
  
        withdrawalAmount = in.nextDouble();  
  
  
        if(withdrawalAmount > balance){  
  
            System.out.println("ERROR! The entered amount is greater  
than the available balance...");  
  
  
        }  
  
  
        else {  
  
            balance -= withdrawalAmount;  
  
            System.out.println("Amount has been successfully  
withdrawn!!!!");  
  
  
        }  
  
    }  
  
}
```

```
Command Prompt
C:\JAVA>java Bank
Enter your account type (Savings/Current):
Savings
Enter your name:
Aditya

Enter your account number:
1234

Enter an amount to deposit:
50000
Balance has been updated

WELCOME TO YOUR SAVINGS ACCOUNT
(1) Deposit
(2) View balance
(3) Withdraw
(4) Calculate compound interest
(5) Exit
Enter your choice:
2

Balance = 50000.0

WELCOME TO YOUR SAVINGS ACCOUNT
(1) Deposit
(2) View balance
(3) Withdraw
(4) Calculate compound interest
(5) Exit
Enter your choice:
1

Enter an amount to deposit:
30000
Balance has been updated

WELCOME TO YOUR SAVINGS ACCOUNT
(1) Deposit
(2) View balance
(3) Withdraw
(4) Calculate compound interest
(5) Exit
Enter your choice:
2

Balance = 80000.0

WELCOME TO YOUR SAVINGS ACCOUNT
(1) Deposit
(2) View balance
(3) Withdraw
(4) Calculate compound interest
(5) Exit
Enter your choice:
3

Enter the amount you want to withdraw:
40000
Amount has been successfully withdrawn!!!!
WELCOME TO YOUR SAVINGS ACCOUNT
(1) Deposit
(2) View balance
(3) Withdraw
(4) Calculate compound interest
(5) Exit
Enter your choice:
2

Balance = 40000.0

WELCOME TO YOUR SAVINGS ACCOUNT
(1) Deposit
(2) View balance
(3) Withdraw
(4) Calculate compound interest
(5) Exit
Enter your choice:
4

Enter time period:
3

CI = 10809.482064826028
CI has been deposited
WELCOME TO YOUR SAVINGS ACCOUNT
(1) Deposit
```

```
cmd Command Prompt
(1) Deposit
(2) View balance
(3) Withdraw
(4) Calculate compound interest
(5) Exit
Enter your choice:
5

C:\JAVA>
```

8
Ans
import java.util.*;
import lang.util.*;

class Bank {
 String name, abc;
 int accNo;
 char accType;
 double balance = 0;
 double deposit;
 double cheque Amount;

Scanner in = new Scanner(System.in);

void inputData () {

System.out.println("Enter your account type (Savings/Current): ");
abc = in.nextLine();

accType = abc.charAt(0);

}

void deposit () {

System.out.println("Enter an amount to deposit: ");

deposit = in.nextDouble();

balance += deposit;

System.out.println("Balance has been updated");

}

void viewBalance () {

System.out.println("Balance = " + balance);

}

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

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

```
int x;
```

```
Bank a1 = new Bank();
```

```
a1.inputData();
```

```
if (a1.acctype == 'C' || a1.acctype == 'c') {
```

```
Curent a2 = new Current();
```

```
do {
```

```
System.out.println ("Welcome To Your Current Account");
```

```
System.out.println ("(1) Deposit");
```

```
System.out.println ("(2) Check Balance");
```

```
System.out.println ("(3) Issue Cheque");
```

```
System.out.println ("(4) Exit");
```

```
System.out.println ("Enter your choice");
```

```
switch (x) {
```

```
case 1: a2.deposit();
```

```
break;
```

```
case 2: a2.checkBalance();
```

```
break;
```

```
case 3: a2.issueCheque();
```

```
break;
```

```
case 4: System.exit(0);
```

```
default: System.out.println ("Invalid choice");
```

```
}
```

```
while (x <= 4 & & x >= 1);
```

```
}
```

```
else if (at.accType == 's' || at.accType == 'c') {  
    Savings a3 = new Savings();
```

```
do {
```

```
    System.out.println("Welcome to your Savings Account");
```

```
    System.out.println("1) Deposit");
```

```
    System.out.println("2) View Balance");
```

```
    System.out.println("3) Withdraw");
```

```
    System.out.println("4) Calculate Compound Interest");
```

```
    System.out.println("5) Exit");
```

```
    System.out.println("Enter your choice");
```

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

```
switch(x) {
```

```
    case 1: a3.deposit();
```

```
        break;
```

```
    case 2: a3.viewBalance();
```

```
        break;
```

```
    case 3: a3.balanceAfterWithdrawal();
```

```
        break;
```

```
    case 4: a3.compInterest();
```

```
        break;
```

```
    default: System.out.println("Invalid choice");
```

```
}
```

```
} while (x <= 5 & x >= 1);
```

```
else System.out.println("Invalid Account Type");
```

class Current extends Bank {

Current () {

System.out.println ("Enter your name: ");
name = in.nextLine();
System.out.println ("");

System.out.println ("Enter your account number ");
accNo. = Integer.parseInt (in.nextLine());

deposit();

void issueCheque () {

System.out.println ("Enter the amount for which the cheque
to be issued ");

chequeAmount = in.nextDouble();

if (chequeAmount > balance) {

System.out.println ("Insufficient amount ");

} else () {

balance -= chequeAmount;

System.out.println ("Cheque has been issued successfully ");

}

void checkBalance () {

if (balance < 1000) {

System.out.println ("Current available balance is insufficient ");

balance -= 100;

viewBalance();

class Savings extends Bank {

 double CT, withdrawalAmount, time;

Savings () {

 System.out.println ("Enter your name : ");

 name = in.nextLine();

 System.out.println ("Enter your account number : ");

 accNo = in.nextInt();

 deposit();

}

void computeCI () {

 System.out.println ("Enter time period : ");

 time = in.nextInt();

 CI = balance * Math.pow (1 + (0.08 / 12), 12 * time) - balance;

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

 balance += CI;

 System.out.println ("CI has been deposited");

}

void balanceAfterWithdrawal () {

 System.out.println ("Enter the amount you want to withdraw ");

 withdrawalAmount = in.nextDouble();

 if (withdrawalAmount > balance) {

 System.out.println ("Entered amount is greater than balance");

}

 else {

 balance -= withdrawalAmount;

 System.out.println ("Successful");

}

}

}

