B.M.S College of Engineering

(Autonomous Institution affiliated to VTU, Belagavi)
Bengaluru – 20

Department of Computer Science and Engineering

Report on

OOJP LAB PROGRAMS

Course Title: Object Oriented Java Programming

Course Code: 19CS3PCOOJ

(Autonomous Scheme 2020)

Submitted by

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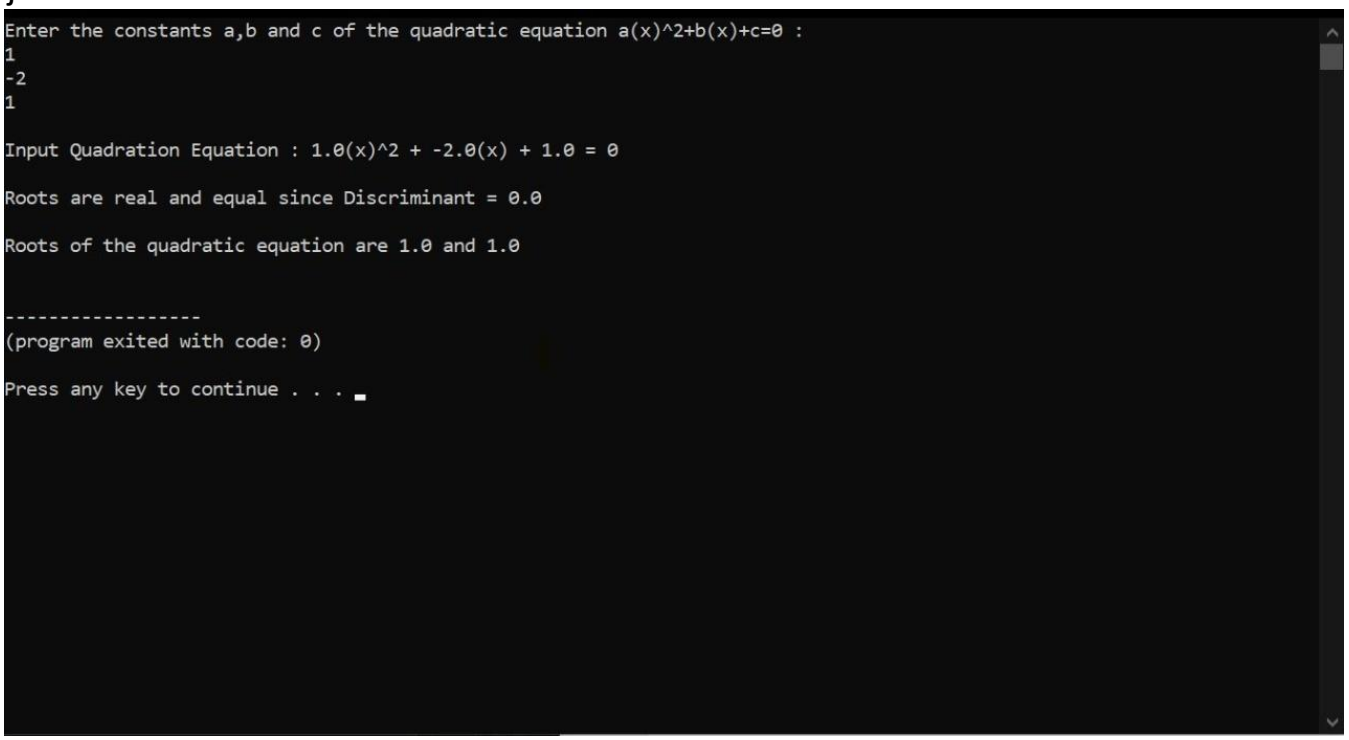
LAB1

```
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 Quadration 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);
            }

      }
}
```



LAB 2

```
import java.util.Scanner;


class Student{
   Scanner sc = new Scanner(System.in);
   String USN;
   String Name;
   int credits[] = new int[5];
   float marks[] = new float[5];
   int points[] = new int[5];
   float SGPA;
   int totalCredits = 0;

   void getDetails(){
      System.out.println("Enter student USN: ");
      USN = sc.nextLine();
      System.out.println("Enter student Name: ");
      Name = sc.nextLine();
      for(int i=0;i<5;i++){
         System.out.println("Enter Credits for Subject " + (i+1) + ": ");
         credits[i] = sc.nextInt();
         totalCredits += credits[i];
         System.out.println("Enter Marks for Subject " + (i+1) + ": ");
         marks[i] = sc.nextFloat();
      }
   }

   void showDetails(){
      System.out.println("Student USN: " + USN);
      System.out.println("Enter 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: " +
(float)(SGPA/totalCredits));
   }

   void calcSGPA(){


      for(int i = 0;i<5;i++){
         if(marks[i] > 100){
            System.out.println("Error: Marks are above 100");
            return;
         }else if(marks[i] >= 90){
            points[i] = 10;
         }else if(marks[i] >= 80){
            points[i] = 9;
         }else if(marks[i] >= 70){
            points[i] = 8;
         }else if(marks[i] >= 60){
            points[i] = 7;
         }else if(marks[i] >= 50){
            points[i] = 5;
         }else if(marks[i] >= 40){
            points[i] = 4;
         }else{
            points[i] = 0;
         }

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

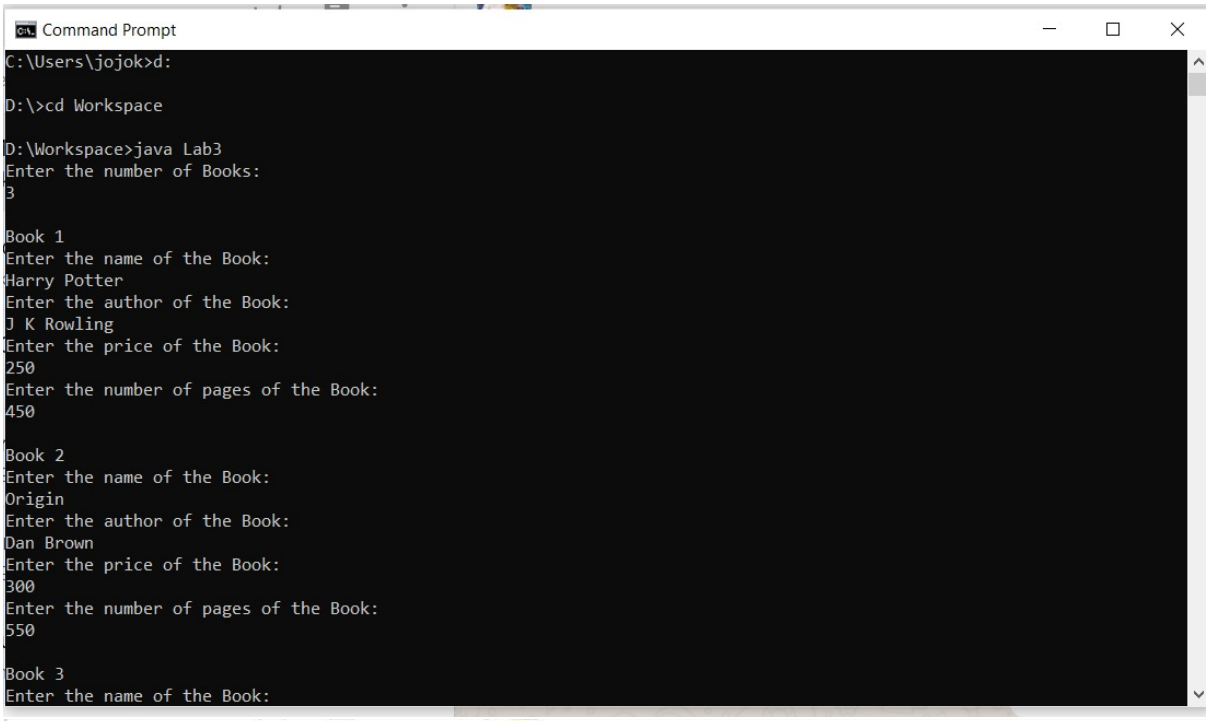
```
}

public class program {
   public static void main(String args[]) {
      Student st1 = new Student();
      st1.getDetails();
      st1.calcSGPA();
      st1.showDetails();

   }
}
```

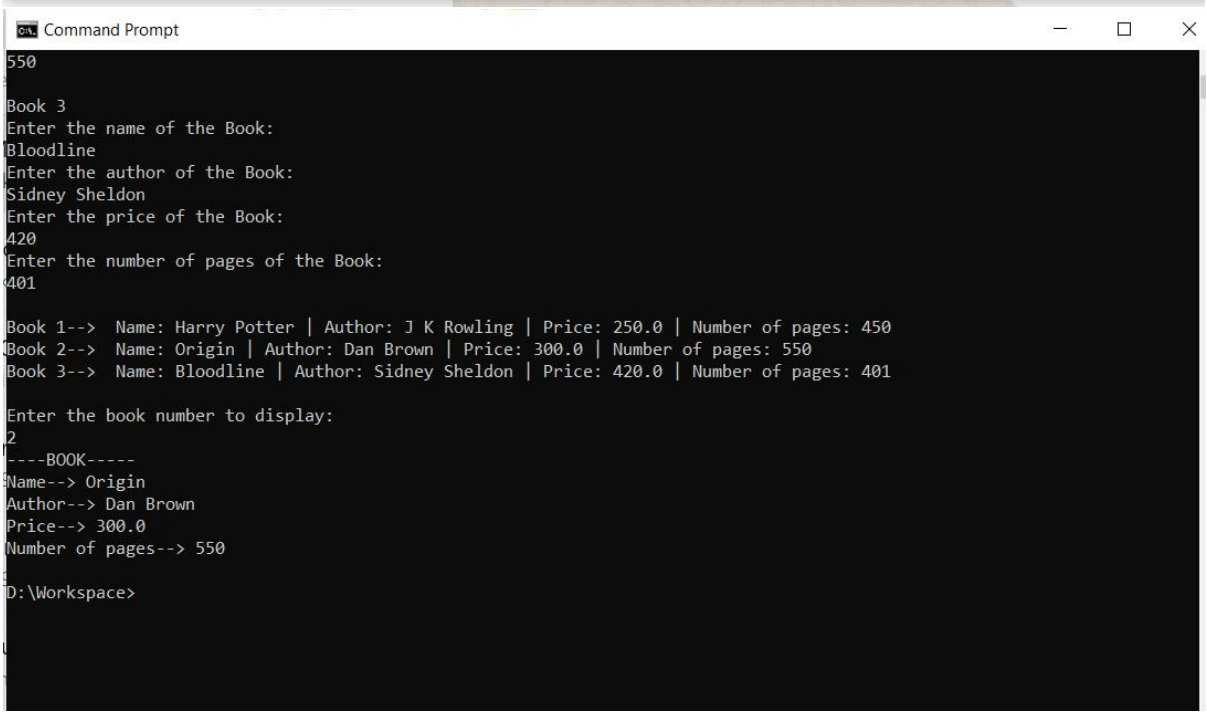
```
Enter the Student USN:
1BM19CS201
Enter the name of the Student:
Mazin Salim
Enter the amount of Credits for Subject 1:
5
Enter the Marks obtained by the student for Subject 1 out of 100:
90
Enter the amount of Credits for Subject 2:
4
Enter the Marks obtained by the student for Subject 2 out of 100:
88
Enter the amount of Credits for Subject 3:
5
Enter the Marks obtained by the student for Subject 3 out of 100:
92
Enter the amount of Credits for Subject 4:
5
Enter the Marks obtained by the student for Subject 4 out of 100:
93
Enter the amount of Credits for Subject 5:
5
Enter the Marks obtained by the student for Subject 5 out of 100:
75
Student USN: 1BM19CS201
Student Name: Mazin Salim
Subject 1 :       Credits: 5    --> Marks: 90.0
Subject 2 :       Credits: 4    --> Marks: 88.0
```

LAB 3:

```
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:\Users\jojok>d:
D:\>cd Workspace
D:\Workspace>java Lab3
Enter the number of Books:
3
Book 1
Enter the name of the Book:
Harry Potter
Enter the author of the Book:
J K Rowling
Enter the price of the Book:
250
Enter the number of pages of the Book:
450
Book 2
Enter the name of the Book:
Origin
Enter the author of the Book:
Dan Brown
Enter the price of the Book:
300
Enter the number of pages of the Book:
550
Book 3
Enter the name of the Book:


Command Prompt
550
Book 3
Enter the name of the Book:
Bloodline
Enter the author of the Book:
Sidney Sheldon
Enter the price of the Book:
420
Enter the number of pages of the Book:
401
Book 1--> Name: Harry Potter | Author: J K Rowling | Price: 250.0 | Number of pages: 450
Book 2--> Name: Origin | Author: Dan Brown | Price: 300.0 | Number of pages: 550
Book 3--> Name: Bloodline | Author: Sidney Sheldon | Price: 420.0 | Number of pages: 401
Enter the book number to display:
2
----BOOK-----
Name--> Origin
Author--> Dan Brown
Price--> 300.0
Number of pages--> 550
D:\Workspace>

LAB 4:

```
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();
```

```
        }

    }
```

```
Enter two numbers:

5
5
Area of Rectangle: 25
Enter two numbers:

6
4
Area of Triangle: 12
Enter two numbers:

8
7
Area of Circle 1: 200.96
Area of Circle 2: 153.86
```

LAB 5:

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

class Account {

	String name, abc;
	int accNo;
	char accType;
	double bal = 0;
	double deposit;
	Scanner in = new Scanner(System.in);

	void input_data() {

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

	void deposit() {

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

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

	void view_balance() {

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

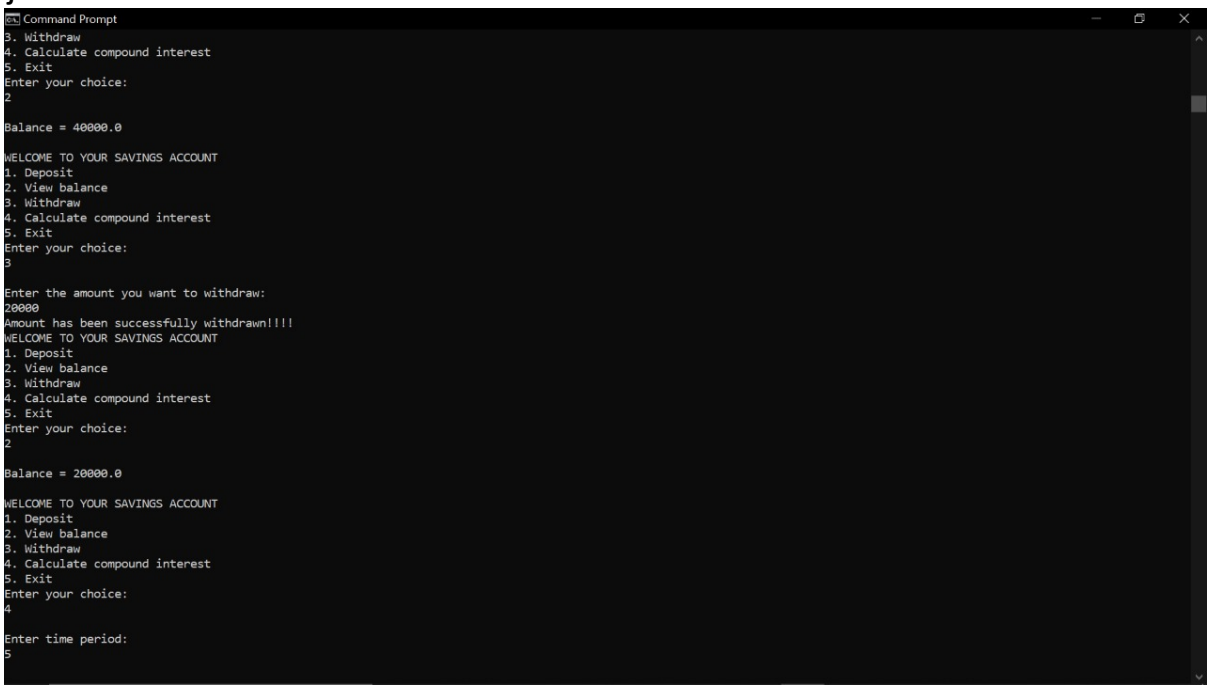
```
    public static void main(String[] args) {

        Scanner s = new Scanner(System.in);
        int x;
        Account a1 = new Account();
        a1.input_data();

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

            Current 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: ");
                x = s.nextInt();

                switch(x) {
                    case 1: a2.deposit();
                    break;
                    case 2: a2.check_balance();
                    break;
                    case 3: a2.issue_cheque();
                    break;
                    case 4: System.exit(0);
                    break;
                    default: System.out.println("ERROR.
INVALID CHOICE.");
                }

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

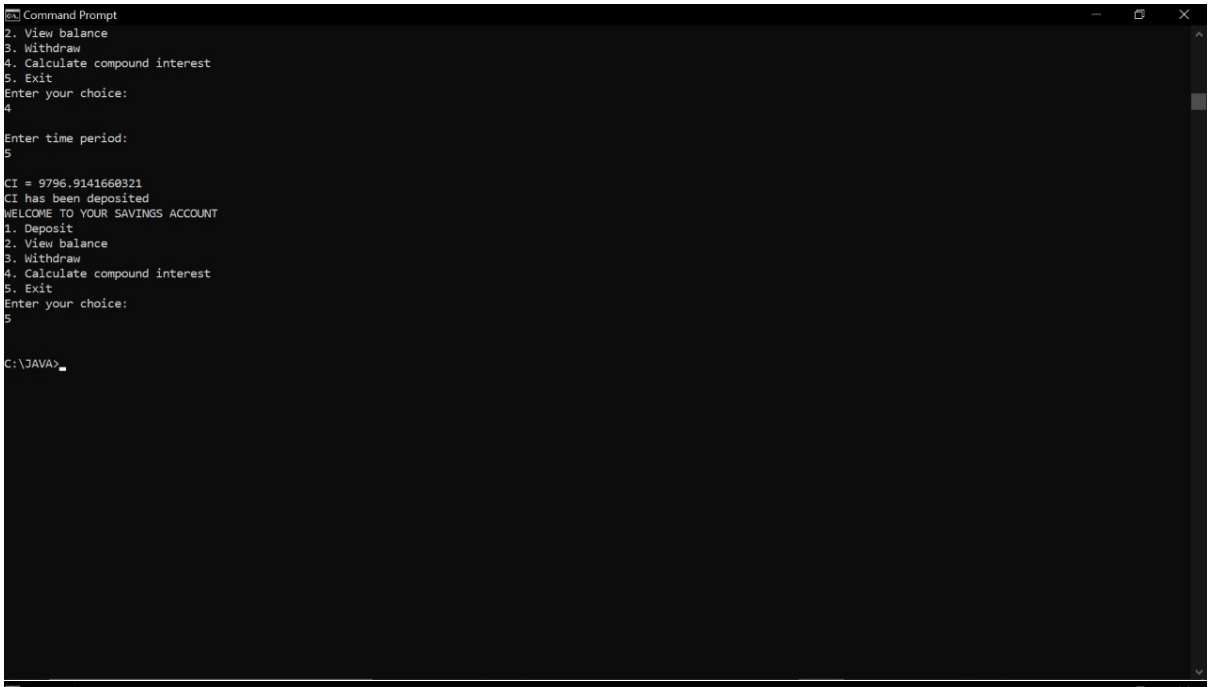
```
            }
            else if (a1.accType == 'S' || a1.accType == 's'){

                  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();

                        switch(x) {
                              case 1: a3.deposit();
                              break;
                              case 2: a3.view_balance();
                              break;
                              case 3: a3.withdraw_balance();
                              break;
                              case 4: a3.compute_CI();
                              break;
                              case 5: System.exit(0);
                              break;
                              default: System.out.println("ERROR.
INVALID CHOICE.");
                        }


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

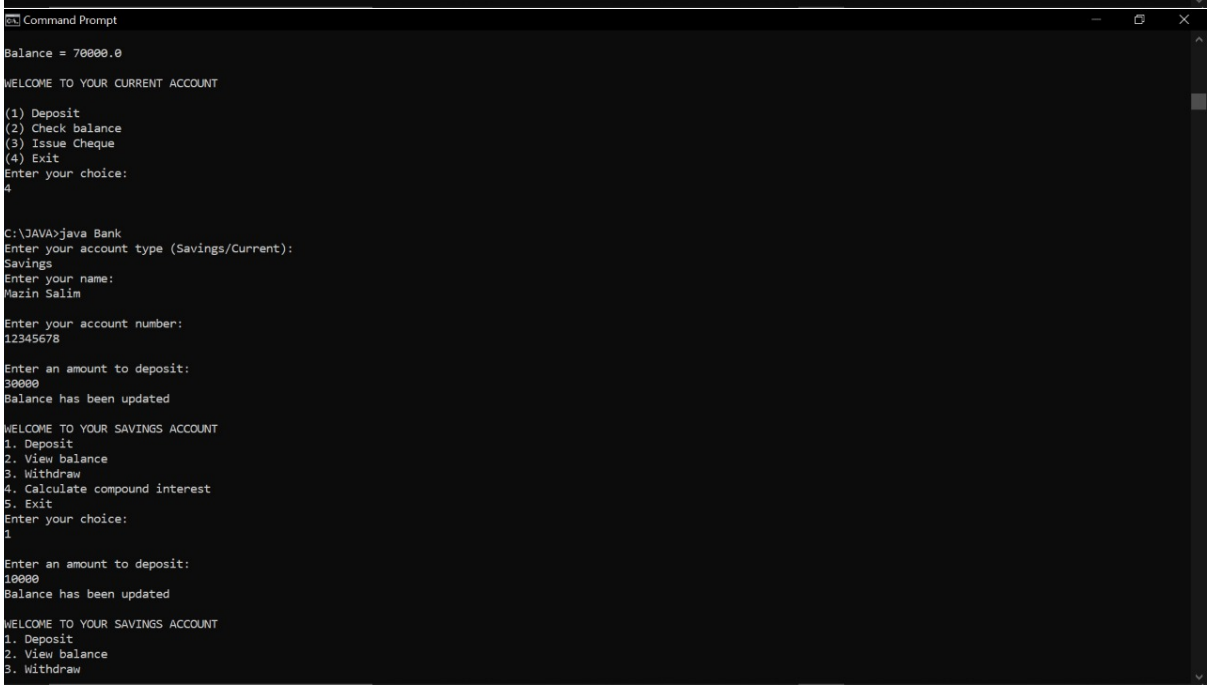
```
            else System.out.println("INVALID ACCOUNT TYPE");
        }
}

class Current extends Account {

        Current() {

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

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

                deposit();
        }

        double chq_amount;

        void issue_cheque() {

                System.out.println("Enter amount for which cheque is to
be issued.");
                chq_amount = in.nextDouble();
                if(chq_amount > bal) {
                        System.out.println("ERROR! Insufficient balance in
account.");
                }
                else {
                        bal -= chq_amount;
                        System.out.println("Cheque has been issued
SUCCESSFULLY");
                }
        }
```

```
        void check_balance() {

                if(bal < 1000) {

                        System.out.println("Current available balance is
lesser than minimum required balance.");
                        bal -= 100;
                        System.out.println("Service charge of Rs.100 has
been deducted from your balance.");
                }
                view_balance();
        }
}

class Savings extends Account {

        double CI, withdrawal_ammount, time;

        Savings() {

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

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

                deposit();
        }

        void compute_CI() {

       System.out.println("Enter time period: ");
       time = in.nextInt();
       CI = bal * Math.pow(1 + (0.08 / 12), 12 * time) - bal;
```

```
        System.out.println("CI = " + CI);
        bal += CI;
        System.out.println("CI has been deposited");
    }
        void withdraw_balance() {

                System.out.println("Enter the amount you want to
withdraw: ");
                withdrawal_ammount = in.nextDouble();

                if(withdrawal_ammount > bal) {
                        System.out.println("ERROR! THE ENTERED AMOUNT
IS GREATER THAN THE AVAILABLE BALANCE...");
                }
                else {
                        bal -= withdrawal_ammount;
                        System.out.println("AMOUNT HAS SUCCESSFULLY
BEEN WITHDRAWN!");
                }
        }

}
```




Command Prompt
2. View balance
3. Withdraw
4. Calculate compound interest
5. Exit
Enter your choice:
4
Enter time period:
5
CI = 9796.9141660321
CI has been deposited
WELCOME TO YOUR SAVINGS ACCOUNT
1. Deposit
2. View balance
3. Withdraw
4. Calculate compound interest
5. Exit
Enter your choice:
5
C:\JAVA>


Command Prompt
Balance = 70000.0
WELCOME TO YOUR CURRENT ACCOUNT
(1) Deposit
(2) Check balance
(3) Issue Cheque
(4) Exit
Enter your choice:
4
C:\JAVA>java Bank
Enter your account type (Savings/Current):
Savings
Enter your name:
Mazin Salim
Enter your account number:
12345678
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:
1
Enter an amount to deposit:
10000
Balance has been updated
WELCOME TO YOUR SAVINGS ACCOUNT
1. Deposit
2. View balance
3. Withdraw

LAB 6

```
import CIE.*;
import SEE.*;
import java.util.*;

class Main
{
	public static void main(String args[])
	{
		Scanner sx = new Scanner(System.in);
		System.out.println("Enter the number of students");
		int n= sx.nextInt();
		CIE.internals in[]= new CIE.internals[n];
		SEE.externals en[]= new SEE.externals[n];
		int i,j;
		for(i=0;i<n;i++)
		{
			System.out.println("Student "+(i+1));
			in[i] = new CIE.internals();
			en[i] = new SEE.externals();
			in[i].read();

			System.out.println("CIE MARKS:");
			in[i].accept();
			System.out.println("SEE MARKS:");
			en[i].get();
			System.out.println();
			in[i].display();
			for(j=0;j<5;j++)

			System.out.println("Total Marks for course
"+(j+1)+": "+(in[i].cie[j] + (en[i].see[j]/2)));
		}
```

```
	}
}
package SEE;
import java.util.*;
import CIE.*;
public class externals extends personal
{
	public double see[];

	public void get()
	{
		see= new double[5];
		Scanner sc = new Scanner(System.in);
		for(int i=0;i<5;i++)
		{
			System.out.println("SEE mark for course "+(i+1)+" :
");
			see[i]= sc.nextDouble();
		}
	}


}
package CIE;
import java.util.*;
public class personal
{
	public String name;
	public int sem;
	public String usn;

	public void read()
	{
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter the name");
```

```
            name = sc.next();
            System.out.println("Enter the semester");
            sem = sc.nextInt();
            System.out.println("Enter the USN");
            usn = sc.next();
        }
        public void display()
        {
            System.out.println("Student details: ");
            System.out.println("Name: "+name+"\nUSN:
"+usn+"\nSem: "+sem);
        }


}
package CIE;
import java.util.*;
public class internals extends personal
{
        public double cie[];

        public void accept()
        {
            cie= new double[5];
            Scanner sc = new Scanner(System.in);
            for(int i=0;i<5;i++)
            {
                System.out.println("CIE mark for course "+(i+1)+" :
");
                cie[i]= sc.nextDouble();
            }
        }
```

```
Enter the number of students
3
Student 1
Enter the name
mazin
Enter the semester
2
Enter the USN
1bm19cs201
CIE MARKS:
CIE mark for course 1 :
34
CIE mark for course 2 :
45
CIE mark for course 3 :
56
CIE mark for course 4 :
30
CIE mark for course 5 :
25
SEE MARKS:
SEE mark for course 1 :
80
SEE mark for course 2 :
90
SEE mark for course 3 :
75
SEE mark for course 4 :
60
SEE mark for course 5 :
20

Student details:
Name: mazin
USN: 1bm19cs201
Sem: 2
Total Marks for course 1: 74.0
Total Marks for course 2: 90.0
Total Marks for course 3: 93.5
Total Marks for course 4: 60.0
Total Marks for course 5: 35.0
Student 2
Enter the name
Rai
```

```
Rai
Enter the semester
3
Enter the USN
1bm19cs201
CIE MARKS:
CIE mark for course 1 :
30
CIE mark for course 2 :
25
CIE mark for course 3 :
34
CIE mark for course 4 :
23
CIE mark for course 5 :
17
SEE MARKS:
SEE mark for course 1 :
7
SEE mark for course 2 :
80
SEE mark for course 3 :
90
SEE mark for course 4 :
60
SEE mark for course 5 :
50

Student details:
Name: Rai
USN: 1bm19cs201
Sem: 3
Total Marks for course 1: 33.5
Total Marks for course 2: 65.0
Total Marks for course 3: 79.0
Total Marks for course 4: 53.0
Total Marks for course 5: 42.0
Student 3
Enter the name
Adi
Enter the semester
30
Enter the USN
25
```

```
Total Marks for course 4: 53.0
Total Marks for course 5: 42.0
Student 3
Enter the name
Adi
Enter the semester
30
Enter the USN
25
CIE MARKS:
CIE mark for course 1 :
25
CIE mark for course 2 :
26
CIE mark for course 3 :
35
CIE mark for course 4 :
37
CIE mark for course 5 :
40
SEE MARKS:
SEE mark for course 1 :
80
SEE mark for course 2 :
75
SEE mark for course 3 :
65
SEE mark for course 4 :
90
SEE mark for course 5 :
55

Student details:
Name: Adi
USN: 25
Sem: 30
Total Marks for course 1: 65.0
Total Marks for course 2: 63.5
Total Marks for course 3: 67.5
Total Marks for course 4: 82.0
Total Marks for course 5: 67.5
```

LAB -7

```
import java.util.*;
import java.lang.*;
class Generics<X,Y,Z>{
	X ob1;
	Y ob2;
	Z ob3;

	Generics(X x,Y y,Z z){
		ob1 = x;
		ob2 = y;
		ob3 = z;
	}

	void showTypes(){
		System.out.println("Type of X is
"+ob1.getClass().getName());
		System.out.println("Type of Y is
"+ob2.getClass().getName());
		System.out.println("Type of Z is
"+ob3.getClass().getName());
	}

	X getob1(){
		return ob1;
	}
	Y getob2(){
		return ob2;
	}
	Z getob3(){
		return ob3;
	}
}
```

```
class LAB7{
	public static void main(String args[]){

		Generics<Integer,Double,String> A = new
Generics<Integer,Double,String>(22,150067.09,"Test");

		A.showTypes();

		int i = A.getob1();
		System.out.println("Value:"+i);

		double g= A.getob2();
		System.out.println("Value:"+g);

		String str = A.getob3();
		System.out.println("Value:"+str);
	}
}
```

```
D:\>java LAB7
Ob1: 5
Ob2: 4
Sum: 9

Ob1: 3.05
Ob2: 4.02
Sum: 7.069999999999999

Ob1: Hello,
Ob2:  How are you?
Concatanation: Hello, How are you?


D:\>
```

LAB -8

```
import java.util.Scanner;
class fatherAgeException extends Exception
{
   public String toString()
   {
      return("Wrong Age!! Father's age is less than 0");
   }
}

class sonAgeException extends Exception
{
   int a, b;
   sonAgeException (int sage, int fage)
   {
      a = sage;
      b = fage;
   }
   public String toString()
   {
      if(a==b)
        return("Wrong Age!! Son's age is equal to father's age");
/*      if(a<0)
        return("Wrong Age!! Son's age is less than 0");
*/      else
        return("Wrong Age!! Son's age is more than father's age");
   }
}

class Father
{
   public int agel;
   Scanner scan = new Scanner(System.in);
   int age1;
```

```
    Father()
    {
       System.out.print("Enter father's age: ");
       age1 = scan.nextInt();
    }
    void ex1() throws fatherAgeException
    {
       if (age1 < 0)
        throw new fatherAgeException();
    }
}

class Son extends Father
{
    public int age2;
    Son()
    {
       System.out.print("Enter son's age: ");
       age2 = scan.nextInt();
    }
    void ex2() throws sonAgeException
    {
       if(age2 < 0 || age2>=age1)
       throw new sonAgeException (age2, age1);
    }
}

class age
{
    public static void main(String [] args){
       Son s = new Son();{
       try{
          s.ex1();
       }
       catch(fatherAgeException e)
```

```
        {
           System.out.println(e);
        }
        try
        {
           s.ex2();
        }
        catch (sonAgeException e)
        {
        System.out.println(e);
        }
        }
    }
```

```
D:\>javac WrongAge.java

D:\>javac LAB8.java

D:\>java LAB8
Enter the Father's age::> 56
Enter the Son's age::> 25
Nothing wrong here..
```

```
}
```

LAB -9

```
class NewThread implements Runnable
{
  private String name;
  private int interval;
  private Thread t;
  NewThread(String threadname,int interval)
  {
    this.name=threadname;
    this.interval=interval;
    t=new Thread(this,name);
    t.start();
  }
  public void run()
  {
    try
    {
      for(int i=5;i>0;i--)
      {
        System.out.println("Thread --"+this.name);
        Thread.sleep(this.interval);
      }
    }
    catch(InterruptedException e)
    {
      System.out.println(name+"Interrupted");
    }
  }
}
class Multithread
{
  public static void main(String args[])
  {
```

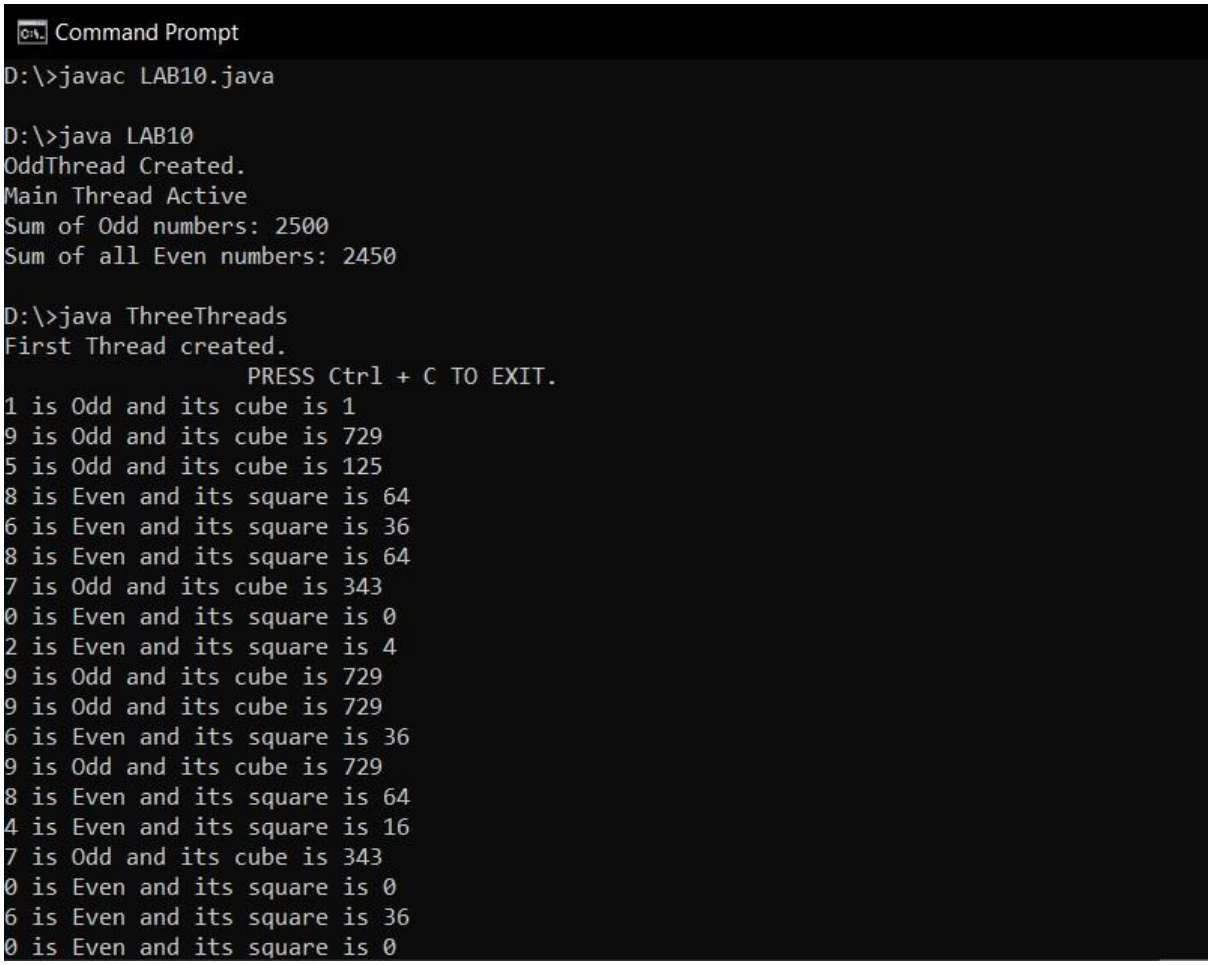
```
    new NewThread("BMS College Of Engineering",10000);
    new NewThread("CSE",2000);
  }
}
```

```
D:\>javac LAB9.java

D:\>java LAB9
BMS College of Engineering
CSE
CSE
CSE
CSE
CSE
BMS College of Engineering
CSE
CSE
CSE
CSE
CSE
BMS College of Engineering
CSE
CSE
CSE
CSE
CSE
BMS College of Engineering
CSE
CSE
```

LAB 10

```
import java.awt.*;
import java.awt.event.*;
class DivisionInteger extends Frame implements ActionListener{
   TextField num1TextField;
   TextField num2TextField;
   Button calculate;
   int a,b;
   float result;
   String msg="Enter the numbers";
   public DivisionInteger(){

      setLayout(new FlowLayout());

      calculate=new Button("Calculate");
      num1TextField=new TextField(5);
      Label num1Label=new Label("Number 1",Label.RIGHT);
      num2TextField=new TextField(5);
      Label num2Label=new Label("Number 2",Label.RIGHT);

      add(num1Label);
      add(num1TextField);
      add(num2Label);
      add(num2TextField);
      add(calculate);
      num1TextField.addActionListener(this);
      num2TextField.addActionListener(this);
      calculate.addActionListener(this);

      addWindowListener(new MyWindowAdapter());
   }
   public void actionPerformed(ActionEvent ae){
      try{
         result=divideNumbers();
```

```
            msg=("The result is "+result);
            repaint();
        }catch(NumberFormatException e){
            msg="Number is not Integer."+e;
            repaint();
        }catch(ArithmeticException e){
            msg="Divide By zero not Allowed."+e;
            repaint();
        }
    }
    public float divideNumbers(){
        a=Integer.parseInt(num1TextField.getText());
        b=Integer.parseInt(num2TextField.getText());
        if(b==0){
            throw new ArithmeticException();
        }
        return (float)a/b;
    }
    public void paint(Graphics g){
        g.drawString(msg,50,100);
    }
    public static void main(String args[]){
        DivisionInteger div=new DivisionInteger();
        div.setSize(new Dimension(500,500));
        div.setTitle("Division Calculater");
        div.setVisible(true);
    }
}
class MyWindowAdapter extends WindowAdapter{
    public void windowClosing(WindowEvent event){
        System.exit(0);
    }
}
```


Command Prompt
D:\>javac LAB10.java
D:\>java LAB10
OddThread Created.
Main Thread Active
Sum of Odd numbers: 2500
Sum of all Even numbers: 2450
D:\>java ThreeThreads
First Thread created.
PRESS Ctrl + C TO EXIT.
1 is Odd and its cube is 1
9 is Odd and its cube is 729
5 is Odd and its cube is 125
8 is Even and its square is 64
6 is Even and its square is 36
8 is Even and its square is 64
7 is Odd and its cube is 343
0 is Even and its square is 0
2 is Even and its square is 4
9 is Odd and its cube is 729
9 is Odd and its cube is 729
6 is Even and its square is 36
9 is Odd and its cube is 729
8 is Even and its square is 64
4 is Even and its square is 16
7 is Odd and its cube is 343
0 is Even and its square is 0
6 is Even and its square is 36
0 is Even and its square is 0