$\label{eq:DonBosco} \textbf{Don Bosco Institute of Technology, Kurla}(W) \\ \textbf{Department of Electronics and Tele-Communication Engineering}$

ECL304 - Skill Lab: C++ and Java Programming Sem III 2021-22

Lab Number:	4
Student Name:	Shalen Mohod
Roll No :	37

Title:

- 4.1 Write a Java program to Create a class Student with two method getData() and printData(). getData() to get the value from the user and display the data in printData(). Create the two objects s1,s2 to declare and access the values from class StudentTest.
- 4.2 Write a Java program for Basic bank Management System

Learning Objective:

• Students will be able to write C++ and java program for using classes and objects.

Learning Outcome:

- Ability to execute a simple C++and Java program by accepting and displaying values using functions
- Understanding the classes and objects concept in C++ and Java.

Course Outcome:

ECL304.1	Understand object-oriented programming concepts and implement using C++ and Java
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4.1 Write a Java program to Create a class Student with two method getData() and printData(). getData() to get the value from the user and display the data in printData(). Create the two objects s1,s2 to declare and access the values from class StudentTest.

```
import java.util.Scanner;
class Student {
      Scanner in=new Scanner(System.in);
      String name;
      int roll_no;
      float cgpa;
      char div;
      char branch;
      void getdata()
      {
             System.out.println("Enter your name:");
             name=in.next();
             System.out.println("Enter your roll number:");
             roll_no=in.nextInt();
             System.out.println("Enter your CGPA:");
             cgpa=in.nextFloat();
             System.out.println("Enter your Division:");
             div=in.next().charAt(0);
             System.out.println("Enter branch:");
             branch=in.next().charAt(0);
```

```
{
             name=n;
             roll_no=r;
             cgpa=c;
             div=d;
             branch=b;
      }
       void printdata()
       {
             System.out.println("Name of the student: "+name);
             System.out.println("Roll-no of the student: "+roll_no);
             System.out.println("Cgpa of the student: "+cgpa);
             System.out.println("Division of the student: "+div);
             System.out.println("branch of the student: "+branch);
      }
};
public class StudentTest {
       public static void main(String[] args) {
             Student s1=new Student();
             Student s2=new Student();
```

void getdata(String n,int r,float c,char d, char b)

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s1.getdata();
s1.printdata();
s2.getdata();
s2.printdata();

}

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```
Enter your Name: arvan
enter your Roll no: 13
nter your Division: B
nter your Branch: Mech
inter your CGPA:9.8
Student Information
he name is: aryan
he Roll no is: 13
he Division is: B
he Branch is: Mech
he CGPA is: 9.8
nter your Name: Vidhu
enter your Roll no: 25
nter your Division: B
nter your Branch: Mech
nter your CGPA:9.54
Student Information
he name is: Vidhu
he Roll no is: 25
he Division is: B
he Branch is: Mech
he CGPA is: 9.54
Program finished]∭
```

4.2 Write a Java program for Basic bank Management System

import java.util.Scanner;

public class BankLab2 {

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Scanner in=new Scanner(System.in);
String name;
char account_type;
int account_number,amount;
float balance;
<pre>public BankLab2(String n,int a, char t, float b) {</pre>
// TODO Auto-generated constructor stub
name = n;
account_number=a;
account_type=t;
balance=b;

```
}
int deposit()
{
       System.out.println("Enter the amount to deposit: ");
       int amount=in.nextInt();
       if(amount < 0)
       {
              System.out.println("Invalid amount,Enter a valid amount");
              return 0;
       }
       balance=balance+amount;
       return 1;
}
```

```
int withdraw()
{
      System.out.println("Your Balance= " +balance);
      System.out.println("Enter amount to withdraw: ");
      int amount=in.nextInt();
      if (balance<amount)</pre>
      {
             System.out.println("Insufficient Balance: ");
             return 0;
      }
      if(amount<0)
      {
             System.out.println("Invalidamount" );
```

```
return 0;
      }
      balance=balance-amount;
      return 1;
}
void display()
{
      System.out.println("Name:"+name);
      System.out.println("Account Number:" +account_number);
      System.out.println("Account Type:" +account_type);
      System.out.println("Balance: " +balance);
```

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<pre>public static void main(String[] args) {</pre>		
// TODO Auto-generated method stub		
Scanner in=new Scanner(System.in);		
BankLab2 b1=new BankLab2(''salman'',1,'s',2000);		
BankLab2 b2=new BankLab2(''makarand'',2,'s',2000);		
BankLab2 b3=new BankLab2(''siddharth'',3,'s',2000);		
System.out.println("Menu");		
System.out.println("1.Deposit");		
System.out.println("2.Withdraw");		
System.out.println("3.Display");		
System.out.println("Enter option");		
<pre>int op=in.nextInt();</pre>		
char ans;		

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do	
{	
	System.out.println("Please enter your account number:");
	<pre>int account_number=in.nextInt();</pre>
	switch(account_number)
	{
	case 1: if(op==1)
	b1.deposit();
	if (op ==2)
	b1.withdraw();
	if (op ==3)
	b1.display();
	break;

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case 2: if(op==1)

b2.deposit();

if(op==2)

b2.withdraw();

if(**op==3**)

b2.display();

break;

case 3: if(op==1)

b3.deposit();

if(op==2)

b3.withdraw();

if(**op==3**)

b3.display();

break; default: System.out.println("Enter value between 1 to 3"); break; } System.out.println("Do you want to continue?[Y/N]"); ans=in.next().charAt(0); //char input in variable ans if(ans=='Y' || ans == 'y') { System.out.println("Menu"); System.out.println("1.Deposit"); System.out.println("2.Withdraw"); System.out.println("3.Display"); System.out.println("Enter option");

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```
lenu
 .Deposit
2.Withdraw
3.Display
Enter option
Please enter your account number:
Name :salmanAccount Number:1Account Type:sBalance: 2000Do you want to co
ntinue?[Y/N]Y
Menu1.Deposit2.Withdraw3.DisplayEnter option2
Please enter your account number:
Your Balance= 2000Enter amount to withdraw: 500
Do you want to continue?[Y/N]Y
Menu1.Deposit2.Withdraw3.DisplayEnter option1
Please enter your account number:
Enter the amount to
                        deposit: 400
Do you want to continue?[Y/N]y
Menul.Deposit2.Withdraw3.DisplayEnter option3
Please enter your account number:
Name :salmanAccount Number:1Account Type:sBalance: 1900Do you want to co
ntinue?[Y/N]y
Menu1.Deposit2.Withdraw3.DisplayEnter option
```