

**Don Bosco Institute of Technology, Kurla(W)**  
**Department of Electronics and Tele-Communication Engineering**  
**ECL304 - Skill Lab: C++ and Java Programming**  
**Sem III**  
**2021-22**

<b>Lab Number:</b>	<b>3</b>
<b>Student Name:</b>	<b>Shalen Mohod</b>
<b>Roll No :</b>	<b>37</b>

**Title:**

3.1 Write a C++ 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.

3.2 Write a C++ 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:**

<b>ECL304.1</b>	Understand object-oriented programming concepts and implement using C++ and Java

**Don Bosco Institute of Technology, Kurla(W)**  
**Department of Electronics and Tele-Communication Engineering**  
**ECL304 - Skill Lab: C++ and Java Programming**  
**Sem III**  
**2021-22**

3.1 Write a C++ 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.

```
#include<iostream>

using namespace std;

class Student {
    public:
        string name;
        int roll_no;
        float cgpa;
        char div;
        string branch;

        void getdata()
        {
            cout<<"Enter your name:"<<endl;
            cin>>name;
            cout<<"Enter your roll number:"<<endl;
            cin>>roll_no;
            cout<<"Enter your CGPA:"<<endl;
            cin>>cgpa;
            cout<<"Enter your Division:"<<endl;
            cin>>div;
            cout<<"Enter your branch:"<<endl;
            cin>>branch;
```

**Don Bosco Institute of Technology, Kurla(W)**  
**Department of Electronics and Tele-Communication Engineering**  
**ECL304 - Skill Lab: C++ and Java Programming**  
**Sem III**  
**2021-22**

```
    }

    void getdata(string n,int r,float c,char d,string b)
    {
        name=n;
        roll_no=r;
        cgpa=c;
        div=d;
        branch=b;
    }

    void printdata()
    {
        cout<<"Name of the student: "<<name<<endl;
        cout<<"Roll-no of the student: "<<roll_no<<endl;
        cout<<"Cgpa of the student: "<<cgpa<<endl;
        cout<<"Division of the student: "<<div<<endl;
        cout<<"Branch of the student: "<<branch<<endl;
    }

};

int main ()
{
    Student s1;
    Student s2;
```

**Don Bosco Institute of Technology, Kurla(W)**  
**Department of Electronics and Tele-Communication Engineering**  
**ECL304 - Skill Lab: C++ and Java Programming**  
**Sem III**  
**2021-22**

```
s1.getdata();  
s1.printdata();  
s2.getdata();  
s2.printdata();  
return 0;  
}
```

3.2 Write a C++ program for Basic bank Management System

```
#include<iostream>  
  
using namespace std;
```

**Don Bosco Institute of Technology, Kurla(W)**  
**Department of Electronics and Tele-Communication Engineering**  
**ECL304 - Skill Lab: C++ and Java Programming**  
**Sem III**  
**2021-22**

```
Enter your Name: aryan
Enter your Roll no: 13
Enter your Division: B
Enter your Branch: Mech
Enter your CGPA:9.8
```

```
Student Information
The name is: aryan
The Roll no is: 13
The Division is: B
The Branch is: Mech
The CGPA is: 9.8
```

```
Enter your Name: Vidhu
Enter your Roll no: 25
Enter your Division: B
Enter your Branch: Mech
Enter your CGPA:9.54
```

```
Student Information
The name is: Vidhu
The Roll no is: 25
The Division is: B
The Branch is: Mech
The CGPA is: 9.54
```

```
[Program finished]
```

**class BankLab2 {**

**Faculty: Ms. Deepali Kayande**

**Don Bosco Institute of Technology, Kurla(W)**  
**Department of Electronics and Tele-Communication Engineering**  
**ECL304 - Skill Lab: C++ and Java Programming**  
**Sem III**  
**2021-22**

**public:**

**string name;**

**Don Bosco Institute of Technology, Kurla(W)**  
**Department of Electronics and Tele-Communication Engineering**  
**ECL304 - Skill Lab: C++ and Java Programming**  
**Sem III**  
**2021-22**

```
char account_type;
```

```
int account_number,amount;
```

```
float balance;
```

```
BankLab2(string n,int a, char t, float b) {
```

```
    name = n;
```

```
    account_number=a;
```

```
    account_type=t;
```

```
    balance=b;
```

```
}
```

```
int deposit()
```

```
{
```

**Don Bosco Institute of Technology, Kurla(W)**  
**Department of Electronics and Tele-Communication Engineering**  
**ECL304 - Skill Lab: C++ and Java Programming**  
**Sem III**  
**2021-22**

```
cout<<"Enter the amount to deposit: ";
```

```
cin>>amount;
```

```
if(amount<0)
```

```
{
```

```
    cout<<"Invalid amount,Enter a valid amount";
```

```
    return 0;
```

```
}
```

```
balance=balance+amount;
```

```
return 1;
```

```
}
```

```
int withdraw()
```

```
{
```

```
    cout<<"Your Balance= "<<balance;
```



**Don Bosco Institute of Technology, Kurla(W)**  
**Department of Electronics and Tele-Communication Engineering**  
**ECL304 - Skill Lab: C++ and Java Programming**  
**Sem III**  
**2021-22**

```
cout<<"Enter amount to withdraw: ";
```

```
cin>>amount;
```

```
if (balance<amount)
```

```
{
```

```
    cout<<"Insufficient Balance: ";
```

```
    return 0;
```

```
}
```

```
if(amount<0)
```

```
{
```

```
    cout<<"Invalid    amount";
```

```
    return 0;
```

```
}
```

```
balance=balance-amount;
```

```
return 1;
```

**Don Bosco Institute of Technology, Kurla(W)**  
**Department of Electronics and Tele-Communication Engineering**  
**ECL304 - Skill Lab: C++ and Java Programming**  
**Sem III**  
**2021-22**

```
    }

    void display()

    {

        cout<<"Name : "<<name;

        cout<<"Account Number:"<<account_number;

        cout<<"Account Type:"<<account_type;

        cout<<"Balance: " <<balance;

    }

};

int main()
{

    int account_number;

    char ans;

    BankLab2 b1("salman",1,'s',2000);
```

**Don Bosco Institute of Technology, Kurla(W)**  
**Department of Electronics and Tele-Communication Engineering**  
**ECL304 - Skill Lab: C++ and Java Programming**  
**Sem III**  
**2021-22**

**BankLab2 b2('makarand',2,'s',2000);**

**BankLab2 b3('siddharth',3,'s',2000);**

**cout<<"Menu"<<endl;**

**cout<<"1.Deposit"<<endl;**

**cout<<"2.Withdraw"<<endl;**

**cout<<"3.Display"<<endl;**

**cout<<"Enter option"<<endl;**

**int op;**

**cin>>op;**

**do**

**{**

**cout<<"Please enter your account number:"<<endl;**

**cin>>account\_number;**

**Don Bosco Institute of Technology, Kurla(W)**  
**Department of Electronics and Tele-Communication Engineering**  
**ECL304 - Skill Lab: C++ and Java Programming**  
**Sem III**  
**2021-22**

```
switch(account_number)
```

```
{
```

```
case 1: if(op==1)
```

```
    b1.deposit();
```

```
    if(op==2)
```

```
        b1.withdraw();
```

```
    if(op==3)
```

```
        b1.display();
```

```
    break;
```

```
case 2: if(op==1)
```

```
    b2.deposit();
```

```
    if(op==2)
```

```
        b2.withdraw();
```

**Faculty: Ms. Deepali Kayande**

**Don Bosco Institute of Technology, Kurla(W)**  
**Department of Electronics and Tele-Communication Engineering**  
**ECL304 - Skill Lab: C++ and Java Programming**  
**Sem III**  
**2021-22**

**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: cout<<"Enter value between 1 to 3";**

**break;**

**Faculty: Ms. Deepali Kayande**

**Don Bosco Institute of Technology, Kurla(W)**  
**Department of Electronics and Tele-Communication Engineering**  
**ECL304 - Skill Lab: C++ and Java Programming**  
**Sem III**  
**2021-22**

```
    }  
  
    cout<<"Do you want to continue?[Y/N]";  
  
    cin>>ans;  
  
    if(ans=='Y' || ans == 'y')  
  
    {  
  
        cout<<"Menu";  
  
        cout<<"1.Deposit";  
  
        cout<<"2.Withdraw";  
  
        cout<<"3.Display";  
  
        cout<<"Enter option";  
  
        cin>>op;  
  
    }  
  
}
```

**Don Bosco Institute of Technology, Kurla(W)**  
**Department of Electronics and Tele-Communication Engineering**  
**ECL304 - Skill Lab: C++ and Java Programming**  
**Sem III**  
**2021-22**

`while(ans!='N');`

`}`

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