

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

Lab Number:	3
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Roll No :	29

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 G+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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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;
```

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}

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 ()

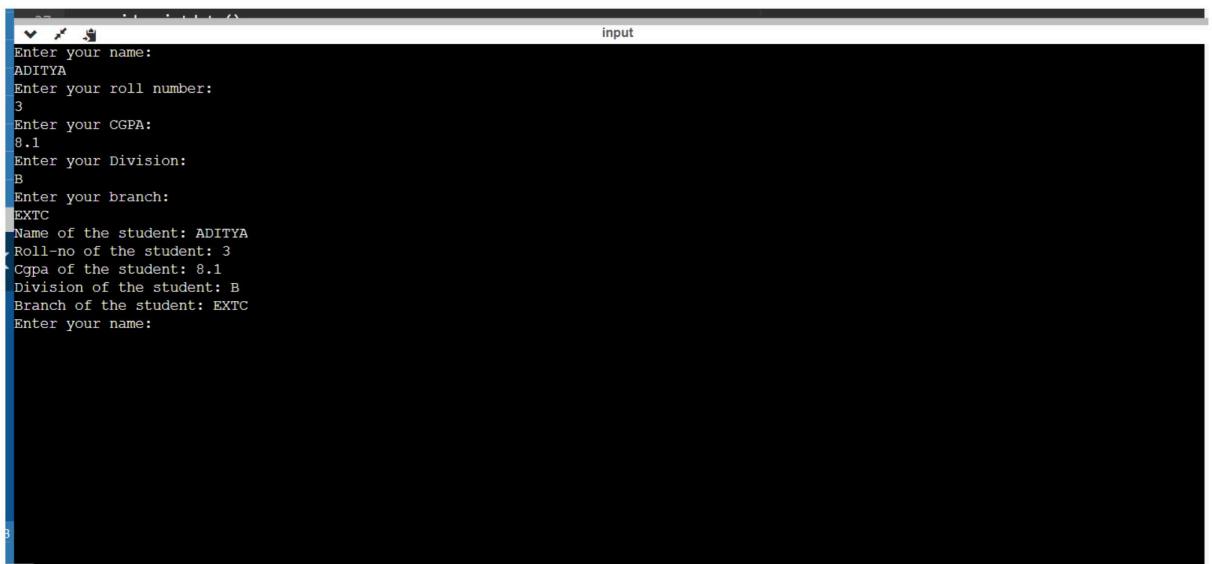
{

Student s1;

Student s2;

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



```
Enter your name:
ADITYA
Enter your roll number:
3
Enter your CGPA:
8.1
Enter your Division:
B
Enter your branch:
EXTC
Name of the student: ADITYA
Roll-no of the student: 3
Cgpa of the student: 8.1
Division of the student: B
Branch of the student: EXTC
Enter your name:
```

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

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

```
class BankLab2 {
```

```
public:
```

```
string name;
```

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```
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()  
  
{
```

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```
cout<<"Enter the amount to deposit: ";\n\n    cin>>amount;\n\n    if(amount<0)\n    {\n        cout<<"Invalid amount,Enter a valid amount";\n\n        return 0;\n    }\n\n    balance=balance+amount;\n\n    return 1;\n}\n\nint withdraw()\n{\n    cout<<"Your Balance= "<<balance;
```

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```
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;
```

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```
}

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);
```

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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;

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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();

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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

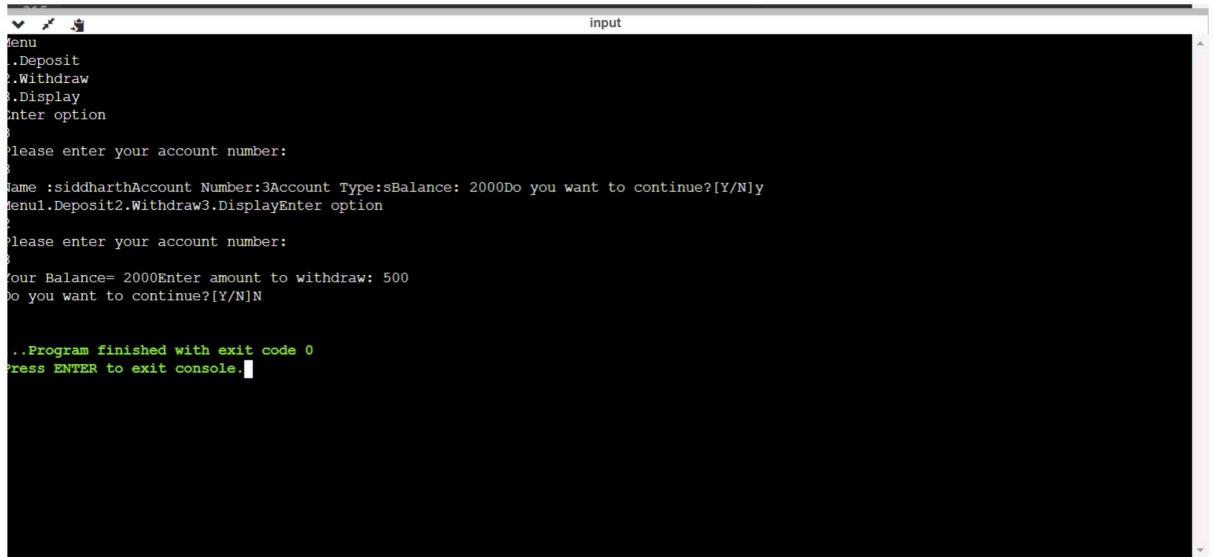
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```
        }  
  
    cout<<"Do you want to continue?[Y/N]";  
  
    cin>>ans;  
  
    if(ans=='Y' || ans == 'y')  
  
    {  
  
        cout<<"Menu";  
  
        cout<<"1.Deposit";  
  
        cout<<"2.Withdraw";  
  
        cout<<"3.Display";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

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

```
}
```



A screenshot of a terminal window titled "input". The window displays a C++ program's output. The program shows a menu with options: Deposit, Withdraw, Display, and Enter option. It prompts the user to enter their account number and displays a sample session where a withdrawal is made from an account with a balance of 2000. The user chooses to withdraw 500 and continues to do so until they choose not to continue. The program ends with a message: "...Program finished with exit code 0 Press ENTER to exit console."

```
menu
1.Deposit
2.Withdraw
3.Display
Enter option

Please enter your account number:
Name :siddharthAccount Number:3Account Type:sBalance: 2000Do you want to continue?[Y/N]y
menu1.Deposit2.Withdraw3.DisplayEnter option

Please enter your account number:
Your Balance= 2000Enter amount to withdraw: 500
Do you want to continue?[Y/N]N

...Program finished with exit code 0
Press ENTER to exit console.
```