

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
Student Name:	SAKSHI KAILASH MOREY
Roll No:	34

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 Student Test.

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:

ECL304.1	Understand object-oriented programming concepts and implement using C++ and Java
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Theory:

Difference between procedural and object-oriented language

Application of object orientation

Brief introduction to C++ and Java

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Algorithm:	<ol style="list-style-type: none">1. Start2. Define Class Student3. Define attributes – Name , Roll_no, cgpa, div , branch4. Define and declare method – getdata() to get input from user.5. Define and declare method – printdata() to print the values6. Define Main function()7. Create object s1, s2 to call the class functionality.8. End.
Program:	<pre>#include<iostream> using namespace std; class Student { public: string name; int roll_no; char div; float cgpa; void getdata() { cout<<"Enter the name of the student: "<<endl; cin>>name; cout<<"Enter the roll-no of the student: "<<endl; cin>>roll_no; cout<<"Enter the Division of the student: "<<endl; cin>>div; cout<<"Enter the cgpa of the student: "<<endl; cin>>cgpa;</pre>

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```
}

/*int getdata(string n,int r,char d,float c)
{
    name=n;
    roll_no=r;
    div=d;
    cgpa=c;
    return 0;
}*/

void printdata()
{

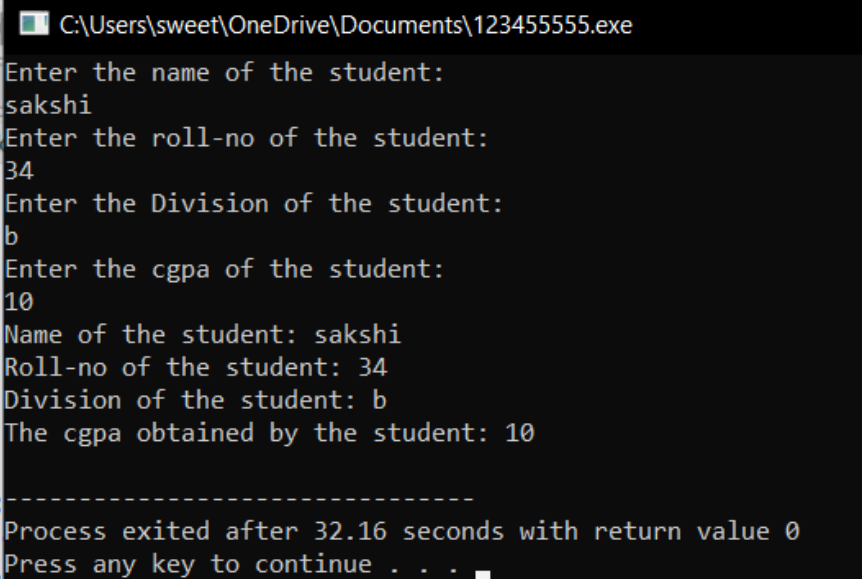
    cout<<"Name of the student: "<<name<<endl;
    cout<<"Roll-no of the student: "<<roll_no<<endl;
    cout<<"Division of the student: "<<div<<endl;
    cout<<"The cgpa obtained by the student: "<<cgpa<<endl;

}

};

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

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	<pre>s1.printdata(); return 0; }</pre>
Input given:	Enter the name of the student: Enter the roll-no of the student: Enter the Division of the student: Enter the cgpa of the student:
Output Screenshot:	 <p>The screenshot shows a command prompt window with the following text:</p> <pre>C:\Users\sweet\OneDrive\Documents\12345555.exe Enter the name of the student: sakshi Enter the roll-no of the student: 34 Enter the Division of the student: b Enter the cgpa of the student: 10 Name of the student: sakshi Roll-no of the student: 34 Division of the student: b The cgpa obtained by the student: 10 ----- Process exited after 32.16 seconds with return value 0 Press any key to continue . . .</pre>

Algorithm:	<ol style="list-style-type: none"> 1. Start 2. Define Class BankLab 2 3. Define attributes – Name , account_type , account_number, amount, balance 4. Declare attributes by using constructor of class. 5. Define and declare method – deposit() to deposit the amount 6. Define and declare method – withdraw() to withdraw the amount 7. Define and declare method – display() to display the account details
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	<p>8. Define Main function()</p> <p>9. Create object b1, b2, b3 to call the class functionality.</p> <p>10. Do – while loop to repeat the process.</p> <p>11. End</p>
Program:	<pre> default: cout<<"Enter value between 1 to 3"; break; } 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; } } while(ans!='N'); } </pre>
Input given:	<p>Menu</p> <p>1.Deposit</p> <p>2.Withdraw</p> <p>3.Display</p> <p>Enter option</p> <p>1</p> <p>Please enter your account number:</p>

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**Output
Screenshot:**

C:\Users\sweet\OneDrive\Documents\banka3.exe

```
balance after diposit : 2033
Enter value between 1 to 32

Please enter your account number:
2

Enter the amount to deposit: 33

balance after diposit : 2033
Your Balance= 2033
Enter amount to withdraw: 30

balance after withdraw : 2003
Enter value between 1 to 33

Please enter your account number:
3

Enter the amount to deposit: 44

balance after diposit : 2044
Name :siddharth
Account Number:3
Account Type:s
Balance: 2044

Enter value between 1 to 34

Please enter your account number:
4
```

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