

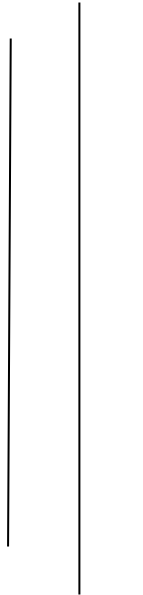


TRIBHUVAN UNIVERSITY

INSTITUTE OF ENGINEERING

PULCHOWK CAMPUS

DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING



LAB REPORT ON OBJECT ORIENTED PROGRAMMING

Bachelor's Degree in Electronics, Communication and Information Engineering  
FIRST YEAR SECOND PART(I-II)

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## LAB 2

### TASK 1:

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

class ask{
    private:
        string name;
        int roll_no;
        float marks;
        string address;
    public:
        void details();
        void display();
};

void ask::details(){
    cout<<"Enter the given details of student : ";
    cout<<"\n Name : ";
    cin>>name;
    cout<<" Roll number : ";
    cin>>roll_no;
    cout<<" Marks : ";
    cin>>marks;
    cout<<" Address : ";
    cin>>address;
}

void ask::display(){
    cout<<"The the details are : ";
    cout<<"\n Name "<<name<<"\n address : "<<address<<"\n marks : "<<marks <<"\n Roll number "<<roll_no;
}

int main(){
```

## TASK 2:

```
#include <iostream>
using namespace std;
class student{
private:
    string name,address;
    int marks,roll_no;
public:
    void ask(){
        cin>>name>>address>>roll_no>>marks;
    }
    void show();
};

void student::show(){
    cout<<" Name : "<<name;
    cout<<"\n Address : "<<address;
    cout<<"\n Roll number : "<<roll_no;
    cout<<"\n Marks : "<<marks;
}

int main(){
    int n;
    student call;
    cout<<"Enter the number of students :";
    cin>>n;
    student s[n];
    cout<<"Enter their details (Name, Address, Roll number, Marks): ";
    for (int i=0;i<n;i++){
        cout<<"\n Student "<<i+1<<" : \n";
        s[i].ask();
    }
    for (int i=0;i<n;i++){
        cout<<"\n Student "<<i+1<<" : \n";
        s[i].show();
    }
}
```

## TASK 3 :

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

class COMPLEX{
    private:
        int real, img;
    public:
        COMPLEX(){
            real=0;
            img=0;
        }
        COMPLEX(int i, int j){
            real =i;
            img = j;
        }

        COMPLEX sum_complex(COMPLEX, COMPLEX);
        void show();
};

COMPLEX COMPLEX::sum_complex(COMPLEX c2, COMPLEX c3){
    real=c2.real + c3.real;
    img=c2.img + c3.img;
}

void COMPLEX :: show(){
    cout<<"The sum of complex number is : "<<real<<" + i "<<img;
}

int main(){
    COMPLEX ca(4, 5), cb(1,2), cc;
    cc.sum_complex(ca, cb);
    cc.show();

}
```

## TASK 4:

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

class COMPLEX{
    private:
        int real, img;
    public:
        COMPLEX(){
            real=0;
            img=0;
        }
        COMPLEX(int i, int j){
            real =i;
            img = j;
        }
        COMPLEX(COMPLEX &c){
            real=c.real;
            img=c.img;
        }
        ~COMPLEX(){
            cout<<"\n Object deleted. ";
        }
        void sum_complex(COMPLEX, COMPLEX);
        void show();
};

void COMPLEX::sum_complex(COMPLEX c2, COMPLEX c3){
    real=c2.real + c3.real;
    img=c2.img + c3.img;
}

void COMPLEX :: show(){
    cout<<"\nThe sum of complex number is : "<<real<<" + i "<<img
;
}

int main(){
    COMPLEX ca(4, 5), cb(1,2), cd,cc(ca);
    cout<<"\n Sum using normal constructor : ";
    cd.sum_complex(ca, cb);
    cd.show();
    cout<<"\n Sum using copy constructor";
    cd.sum_complex(cc,cb);
}
```

```
cd.show();
```

```
}
```