

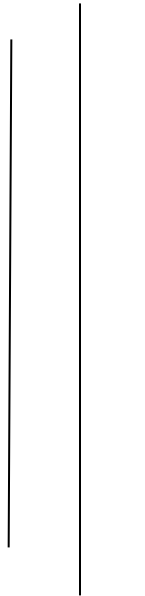


TRIBHUVAN UNIVERSITY

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)

NAME= Anju Chhetri

ROLL NUMBER=076BEI005

LAB 1

TASK 1:

```
#include <stdio.h>
struct complex{
    int real, img;
};
int main(){
    struct complex comp1, comp2, result;
    printf("Enter the first real and imaginary number : ");
    scanf("%d %d", &comp1.real, &comp1.img);
    printf("Enter the second real and imaginary number : ");
    scanf("%d %d", &comp2.real, &comp2.img);
    result.real = comp1.real + comp2.real;
    result.img = comp1.img + comp2.img;
    printf("Result is : %d + i %d", result.real, result.img);
    return 0;
}
```

TASK 2:

```
#include <stdio.h>
struct student{
    char name[20];
    int roll_no;
    int marks;
    char address[30];
};

int main(){
    int n;
    printf("Enter the number of student : ");
    scanf("%d", &n);
    printf("Enter the Details : (Name, Roll
    number, Marks, Address)");
    struct student s[n];
    int i=0;
    for (i=0; i<n; i++){
        printf("\n student   %d", i+1 );
        printf(" : \n");
        scanf("%s %d %d %s", s[i].name,
        &s[i].roll_no, &s[i].marks, s[i].address);
    }
    int j=0;
    for ( j=0;j<n;j++){
        printf("\n student %d", j, " : \n");
        printf("\n Name : %s", s[j].name);
        printf("\n Roll number : %d ",
        s[j].roll_no);
        printf("\n Name : %d ", s[j].marks);
        printf("\n Name : %s", s[j].address);

    }
}
```

TASK 3:

```
#include <iostream>
using namespace std;
#define PIE 3.14
class area{
    private :
        float r, l, b;
    public :
        void ask_circle(){
            cout<<"Enter the radius of circle : ";
            cin>>r;
        }
        void ask_rectangle(){
            cout<<"Enter the length and breadth : ";
            cin>>l>>b;
        }
        void operator *(){
            cout<<"area of circle : "<<PIE * r *r;
            cout<<"\n Area of raduis : "<<l*b;
        }
};

int main(){
    area a;
    a.ask_circle();
    a.ask_rectangle();
    *a;
}
```

TASK 4 :

```
#include <iostream>
using namespace std;
inline float interst(float p, float t, float r){
    return ((p*t*r)/100);
}
int main(){
    float result;
    result=interst(12, 12, 12);
    cout<<"Final result is : "<<result;
}
```

TASK 5 :

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

class default_arg{
    private:
        int i;
    public:
        void show(int i=10){
            cout<<i;
        }
};

int main(){
    default_arg d;
    d.show();
}
```