

## **Practical-1**

**Aim:** WAP to add two objects using binary plus (+) operator overloading

**Program:**

```
#include<iostream>
#include<string.h>
using namespace std;

class Number
{
    private :
        int x;

    public :
        void setData()
        {
            cout << "-> Enter any number : ";
            cin >> this->x;
        }
        void getData()
        {
            cout <<endl<<"-> Sum : "<<this->x;
        }
        Number operator+(Number n)
        {
            Number temp;
            temp.x = this->x + n.x;
            return temp;
        }

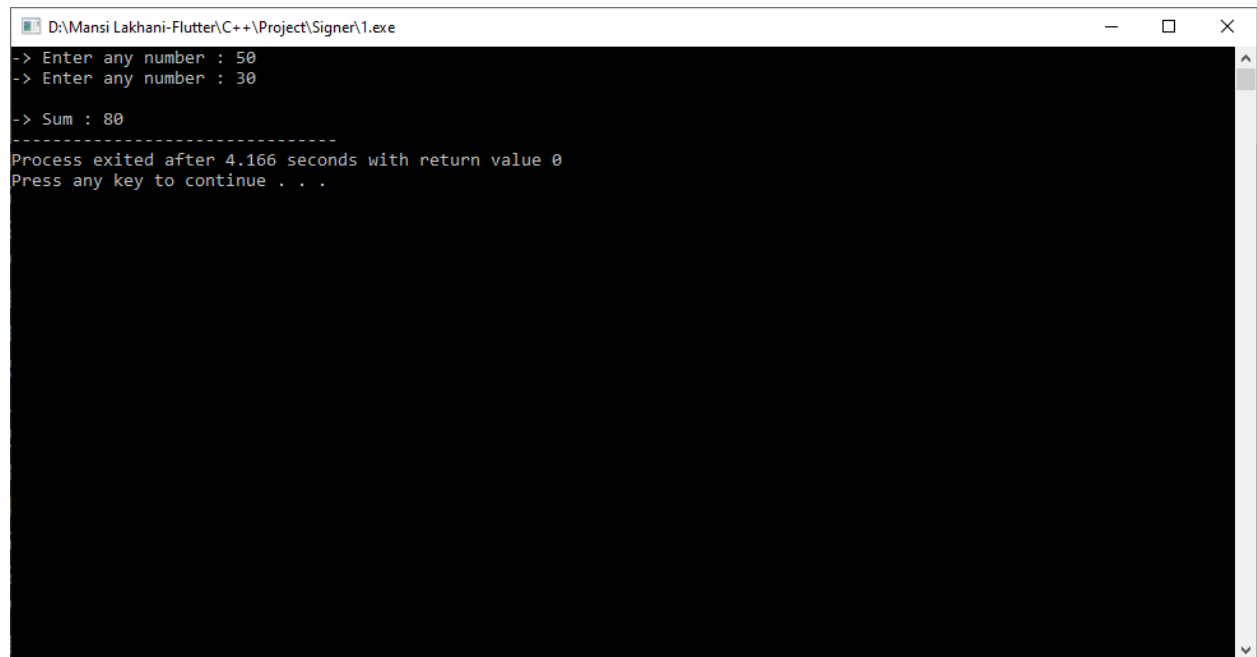
};

int main()
{
    Number n1 ,n2,n3;
```

```
n1.setData();
n2.setData();

n3 = n1+n2;           // n3 = n1.operator+(n2)
n3.getData();
return 0;
}
```

## **Output:**



```
D:\Mansi Lakhani-Flutter\C++\Project\Signer\1.exe
-> Enter any number : 50
-> Enter any number : 30

-> Sum : 80
-----
Process exited after 4.166 seconds with return value 0
Press any key to continue . . .
```

## Practical-2

**Aim:** WAP to add two distances using binary plus (+) operator overloading.

**Program:**

```
#include<iostream>
#include<string.h>
using namespace std;

class Distance
{
    private :
        int inches;
        int feet;

    public :
        void setData()
        {
            cout <<"-> Enter feet : ";
            cin >> this->feet;
            cout <<"-> Enter inches : ";
            cin >> this->inches;
        }

        void getData()
        {
            cout <<"-> Feet : "<<this->feet <<endl
                <<"-> Inch : "<<this->inches <<endl;
        }

        Distance operator+(Distance n)
        {
            Distance temp;
            temp.inches = this->inches + n.inches;
            temp.feet = this->feet + n.feet + (temp.inches/12);
```

```

        temp.inches = temp.inches %12;

        return temp;
    }
};

int main()
{
    Distance d1,d2,d3;

    cout <<".....-: Enter Distance:1 :- ....."<<endl<<endl;
    d1.setData();

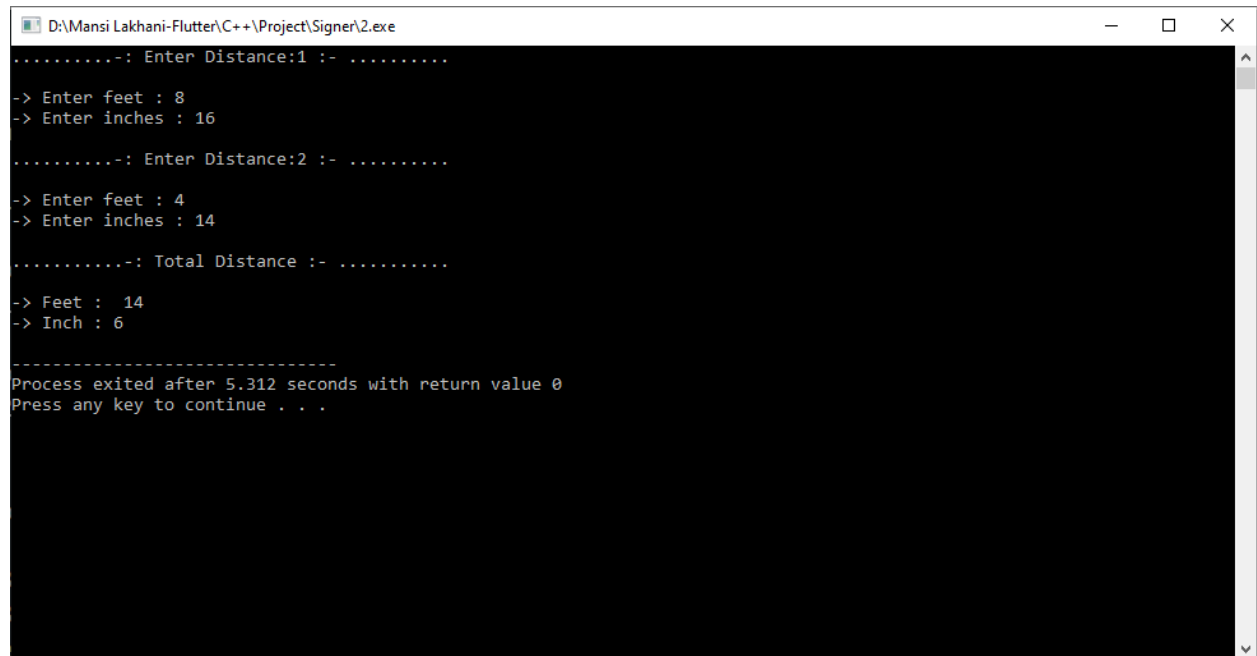
    cout <<endl<<".....-: Enter Distance:2 :- ....."<<endl<<endl;
    d2.setData();

    cout <<endl<<".....-: Total Distance :- ....."<<endl<<endl;

    d3 = d1+d2;    // d3 = d1.operator+(d2)
    d3.getData();
    return 0;
}

```

## Output:



```
D:\Mansi Lakhani-Flutter\C++\Project\Signer\2.exe
.....-: Enter Distance:1 :- .....
-> Enter feet : 8
-> Enter inches : 16

.....-: Enter Distance:2 :- .....
-> Enter feet : 4
-> Enter inches : 14

.....-: Total Distance :- .....

-> Feet : 14
-> Inch : 6

-----
Process exited after 5.312 seconds with return value 0
Press any key to continue . . .
```