

main.cpp

```
1 #include <iostream>
2 using namespace std;
3
4 class Numbers {
5     public:
6         int a;
7         int b;
8
9         void displayValues();
10 };
11
12 void Numbers::displayValues()
13 {
14     cout << "A: " << a << endl;
15     cout << "B: " << b << endl;
16     cout << "Sum: " << a + b;
17 }
18
19 int main ()
20 {
21     Numbers n;
22
23     n.a = 5;
24     n.b = 10;
25
26     n.displayValues();
27
28     return 0;
29 }
```



Share

Run

Output

/tmp/tPp2CN7iZL.o

A: 5

B: 10

Sum: 15

=== Code Execution Successful ===

main.cpp

```
1 #include <iostream>
2 using namespace std;
3
4 class Staff {
5     private:
6         string name;
7         double basicSalary;
8         double DA;
9         double HRA;
10        double grossSalary;
11
12    public:
13        void acceptData()
14        {
15            cout << "Enter staff name: ";
16            getline(cin, name);
17            cout << "Basic Salary: ";
18            cin >> basicSalary;
19
20            DA = 0.745 * basicSalary;
21            HRA = 0.30 * basicSalary;
22
23            grossSalary = basicSalary + DA + HRA;
24        }
25
26        void displayData()
27        {
28            cout << "Staff Name: " << name << endl;
29            cout << "Basic Salary: " << basicSalary << endl;
30            cout << "DA (Dearness Allowance): " << DA << endl;
31            cout << "HRA (House Rent Allowance): " << HRA << endl;
32            cout << "Gross Salary: " << grossSalary << endl;
33        }
34    };
35
36    int main()
37    {
38        Staff s1;
39
40        s1.acceptData();
41        s1.displayData();
42
43        return 0;
44    }
```



Share

Run

Output

/tmp/R36r00vg3u.o

Enter staff name: Staff 1

Basic Salary: 150000

Staff Name: Staff 1

Basic Salary: 150000

DA (Dearness Allowance): 111750

HRA (House Rent Allowance): 45000

Gross Salary: 306750

=== Code Execution Successful ===

main.cpp

```
1 #include <iostream>
2 using namespace std;
3
4 class Circle {
5     private:
6         double radius;
7         double area;
8
9     public:
10        void read()
11        {
12            cout << "Radius: ";
13            cin >> radius;
14        }
15
16        void compute()
17        {
18            area = 3.14159 * radius * radius;
19        }
20
21        void display();
22 };
23
24 void Circle::display()
25 {
26     cout << "\nRadius: " << radius << endl << "Area: " << area << endl;
27 }
28
29 int main()
30 {
31     Circle c;
32
33     c.read();
34     c.compute();
35     c.display();
36
37     return 0;
38 }
```



Share

Run

Output

```
- /tmp/fp1P0nypg6.o
Radius: 21.5

Radius: 21.5
Area: 1452.2
```

=== Code Execution Successful ===

main.cpp

```
1 #include <iostream>
2 using namespace std;
3
4 class Complex {
5     private:
6         double real1;
7         double imaginary1;
8         double real2;
9         double imaginary2;
10
11     public:
12        void read()
13        {
14            cout << "Enter real part 1: ";
15            cin >> real1;
16            cout << "Enter imaginary part 1: ";
17            cin >> imaginary1;
18            cout << "Enter real part 2: ";
19            cin >> real2;
20            cout << "Enter imaginary part 2: ";
21            cin >> imaginary2;
22        }
23
24        void write()
25        {
26            cout << "\nComplex1: " << real1 << ", " << imaginary1 << endl;
27            cout << "Complex2: " << real2 << ", " << imaginary2 << endl;
28        }
29
30        void add()
31        {
32            cout << "\nSum: " << real1 + real2 << ", " << imaginary1 + imaginary2 << endl;
33        }
34 };
35
36 int main()
37 {
38     Complex c1;
39
40     c1.read();
41     c1.write();
42     c1.add();
43
44     return 0;
45 }
```



Share

Run

Output

```
/tmp/SdhkGwGPix.o
Enter real part 1: 12
Enter imaginary part 1: 5
Enter real part 2: 28
Enter imaginary part 2: 6

Complex1: 12, 5
Complex2: 28, 6

Sum: 40, 11
```

=== Code Execution Successful ===