main.cpp

Share Run

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

class Area {
    public:
        float calcArea(float length, float breadth)
        {
            return length * breadth;
        }
};

class Perimeter {
    public:
        float calcPerimeter(float length, float breadth)
        {
            return 2 * (length + breadth);
        }
};

class Rectangle : public Area, public Perimeter {
    float length;
    float breadth;

    public:
        void get_data()
        {
            cout << "Length: ";
            cin >> length;
            cout << "Breadth: ";
            cin >> breadth;
        }
        void display()
        {
            cout << "Area: " << calcArea(length, breadth) << endl;
            cout << "Perimeter: " << calcPerimeter(length, breadth) << endl;
        }
};

int main ()
{
    Rectangle rect;
    rect.get_data();
    rect.display();

    return 0;
}
```

Output

```
/tmp/DKncM2V99z.o
Length: 12.5
Breadth: 25
Area: 312.5
Perimeter: 75


--- Code Execution Successful ---
```

main.cpp

Share Run

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

class OPP{
    protected:
    float marksOPP;
};
class DSU{
    protected:
    float marksDSU;
};
class DMS{
    protected:
    float marksDMS;
};
class DTE{
    protected:
    float marksDTE;
};
class CGR{};
class EIC{};

class CT : public OPP, public DSU, public DMS, public DTE, public CGR, public
    EIC {
    public:
       CT(float opp, float dsu, float dms, float dte, float cgr, float eic)
       {
            marksOPP = opp;
            marksDSU = dsu;
            marksDMS = dms;
            marksDTE = dte;
            marksCGR = cgr;
            marksEIC = eic;
       }
       float average()
       {
           return (marksOPP + marksDSU + marksDMS + marksDTE + marksCGR +
               marksEIC) / 6;
       }
};

int main ()
{
    CT ct1(20, 22, 24, 26, 30, 30), ct2(26, 29, 20, 30, 30, 30);

    cout << "Average: " << endl;
    cout << "CT1: " << ct1.average() << endl;
    cout << "CT2: " << ct2.average() << endl;
    return 0;
}
```

Output

```
/tmp/u1iZkPZ5b7.o
Average:
CT1: 25.3333
CT2: 27.5


--- Code Execution Successful ---
```