```
Run
                                                   κ<sup>tt</sup> Share
                                                                         Output
main.opp
1 #include <iostream>
                                                                        /tmp/DKnoM2V99z.o
 2 using namespace std;
                                                                        Length: 12.5
                                                                        Breadth: 25
 3
 4 v class Area {
                                                                        Anea: 312.5
    public:
                                                                        Perimeter: 75
      float calcArea(float length, float breadth)
      return length " breadth;
                                                                        --- Code Execution Successful ---
9
10 3:
11
12 - class Perimeter {
13 public:
     float calcPerimeter(float length, float breadth)
15 v
      return 2 * (length + breadth);
17 ]
18 };
19
20 v class Rectangle : public Area, public Perimeter {
21 float length;
     float breadth;
22
23
24
     public:
25
     void get_data()
         - {
26 -
      cout << "Length: ";
27
28
      cin >> length;
          cout << "Breadth: ";
29
            cin >> breadth;
30
         1
31
         void display()
32
33 +
      •
      cout << "Area: " << calcArea(length, breadth) << endl;
3.4
35
            cout << "Perimeter: " << calcPerimeter(length, breadth) << endl;</pre>
36
         3-
37 );
39 int main ()
40 √ [
41
      Rectangle rect;
42 rect.get_data();
43
     rect.display();
44
45 return 0;
46 }
```

```
4° Share
                                                                    Run
                                                                              Output
main.opp
 1 #includesiostream>
                                                                           _ /tmp/ulizkPZ5b7.o
 2 using namespace std;
                                                                             Average:
                                                                             CT1: 25.3333
 4 v class OPP{
                                                                             CT2: 27.5
    protected:
 6
       float marksOPP;
 7 3:
                                                                             --- Code Execution Successful ---
8 v class DSU(
    protected:
9
      float marksDSU;
10
11 );
12 v class DWS{
13 protected:
14 float marksDMS;
15 };
16 v class DTE(
17 protected:
18
       float marksDTE;
19 };
20 + class CGR{(CCC)};
24 + class EIC{[mm]};
28
29 v class CT : public OPP, public DSU, public DMS, public DTE, public CGR, public
      EIC {
     public:
30
31
         CT(float opp, float dsu, float dms, float dte, float cgr, float eic)
32 v
              marksOPP - opp;
33
34
             marksDSU - dsu;
35
             marksDMS - dms;
36
              marksDTE - dte;
37
             marksCGR - cgr;
              marksEIC - eic;
38
39
          - 34
40
        float average()
41 -
         - {
42
    return (marksOPP + marksDSU + marksDMS + marksDTE + marksCGR +
                 marksEIC) / 6;
43
        - }
44 };
45
46 int main ()
47 + {
48
     CT ct1(20, 22, 24, 26, 30, 30), ct2(26, 29, 20, 30, 30, 30);
     cout << "Average: " << endl;
50
     cout << "CT1: " << ct1.average() << endl;
51
5.2
     cout << "CT2: " << ct2.average() << endl;
53
      return 0;
54 }
```