```
Tr G & Run
main.cpp
                                                        Output
1 #include<iostream>
                                                       /tmp/y6jzPu6UgY.o
2 using namespace std;
                                                      EmpId: 1
                                                      EmpCode: 1001
4 - class Employee {
                                                      Skill: Skill less
5
     public:
                                                      EmpId: 2
6
     int empid;
                                                      EmpCode: 1002
7
      int empcode;
                                                      Department: No department
         virtual void displayData()
9 +
          {
10
      cout << "Temp";
                                                      === Code Execution Successful ===
11
           }
12 };
13
14 - class Programmer : public Employee {
     public:
16
          string skill;
17
         Programmer (int id, int code, string s)
18 -
          {
19
             empid = id;
20
             empcode = code;
          skill = s;
21
22
          }
23
          void displayData()
24 +
          cout << "EmpId: " << empid << endl;
25
             cout << "EmpCode: " << empcode << endl;
26
             cout << "Skill: " << skill << endl;
27
28
          - }
29
30 };
32 - class Manager : public Employee {
33 public:
         string department;
         Manager (int id, int code, string dept)
36 +
          {
37
             empid = id;
38
             empcode = code;
39
             department = dept;
40
41
          void displayData()
42 -
          cout << "EmpId: " << empid << endl;
43
             cout << "EmpCode: " << empcode << endl;
45
              cout << "Department: " << department <<
                 endl;
46
47 };
48
49 int main ()
50 + {
51
       Programmer p1(1, 1001, "Skill less");
52
       Manager m1(2, 1002, "No department");
53
54
     p1.displayData();
55
      m1.displayData();
56
57
      return 0;
58 }
```

```
(c) «%
main.cpp
                                                Output
 1 #include <iostream>
                                               /tmp/pfEDWr7DDC.o
                                               Enter details for Teacher:
 2 using namespace std;
                                               Enter staff code: 20001
 4 - class Staff {
                                               Enter staff name: Teacher ABC
 5 public:
                                               Enter subject: Maths
                                               Enter publication: Publication 101
      int code;
 7
        string name;
                                               Details of Teacher:
 8
       void input() {
                                               Code: 20001
16 ▶ void display() const { > }
                                               Name: Teacher ABC
20 };
                                               Subject: Maths
                                               Publication: Publication 101
21
22 - class Teacher : public Staff {
23 public:
                                               Enter details for Officer:
      string subject;
                                               Enter staff code: 10001
                                               Enter staff name: Officer ABC
25
      string publication;
                                               Enter grade: 98
26
       void input() {
27 +
34 ▶ void display() const { > }
                                               Details of Officer:
                                               Code: 10001
39 };
                                               Name: Officer ABC
40
41 - class Officer : public Staff {
                                               Grade: 98
42 public:
43
      int grade;
                                               Enter details for Regular Typist:
                                               Enter staff code: 30001
44
45 +
        void input() {
                                               Enter staff name: Regular Typist ABC
        void display() const {
                                               Enter typing speed: 65
                                               Enter regular wages: 75000
55 };
56
57 - class Typist : public Staff {
                                               Details of Regular Typist:
58 public:
                                               Code: 30001
                                               Name: Regular Typist ABC
59
      float speed;
                                               Typing Speed: 65 words per minute
60
      void input() {
                                               Regular Wages: 75000
       void display() const {
                                               Enter details for Casual Typist:
71 };
                                               Enter staff code: 30102
73 - class Regular : public Typist {
                                               Enter staff name: Casual Typist ABC
74 public:
                                               Enter typing speed: 110
        int wages2;
                                               Enter casual wages: 90000
75
       void input() {
77 +
                                               Details of Casual Typist:
83 ▶
        void display() const {
                                               Code: 30102
87 };
                                               Name: Casual Typist ABC
                                               Typing Speed: 110 words per minute
88
89 - class Casual : public Typist {
                                               Casual Wages: 90000
90 public:
91
      float wages;
                                               === Code Execution Successful ===
92
       void input() {
        void display() const {
103 };
104
```

105 • int main() { □ }

```
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 main.cpp
                                                              Output
  1 #include <iostream>
                                                             /tmp/18gXgNKa1d.o
  2 using namespace std;
                                                             Name: Batsman 1
3
                                                             Matches: 10
 4 - class Player {
                                                             totalScore: 200
 5
      public:
                                                             perMatchScore: 5
          string name;
                                                             Average: 20
          int matches;
                                                             Name: Bowler 1
 9
                                                             Matches: 10
 10
       virtual void display()
                                                             noOfWickets: 2
 11 -
         -{
 12
13 }
               cout << "Temp";
 14 };
                                                             === Code Execution Successful ===
 15
 16 - class Batsman : public Player {
 17 public:
         int totalScore;
 18
 19
       int perMatchScore;
 20
       float average;
 21
       Batsman (string n, int m, int score, int matchScore)
 22
 23 +
 24
             name = n;
 25
           matches = m;
 26
           totalScore = score;
 27
             perMatchScore = matchScore;
 28
          }
 29
        void calculateAverage()
 30 +
          {
 31
               average = totalScore / matches;
 32
         }
          void display()
 33
 34 -
          -{
           cout << "Name: " << name << endl;
 35
             cout << "Matches: " << matches << endl;
 36
             cout << "totalScore: " << totalScore << endl;</pre>
 37
 38
           cout << "perMatchScore: " << perMatchScore <<
                  endl;
               cout << "Average: " << average << endl << endl;</pre>
 40
           }
 41 };
 42
 43 * class Bowler : public Player {
     public:
 44
 45
          int noOfWickets;
        Bowler (string n, int m, int wickets)
 47
 48 -
          -{
 49
               name = n;
 50
               matches = m;
 51
               noOfWickets = wickets;
 52
 53
           void display()
 54 -
               cout << "Name: " << name << endl;
 55
              cout << "Matches: " << matches << endl;
 56
           cout << "noOfWickets: " << noOfWickets << endl <<
 57
                  endl:
 58 }
 59 };
 60
 61 int main ()
 62 + {
     Batsman bat1("Batsman 1", 10, 200, 5);
 63
 64
       Bowler bow1("Bowler 1", 10, 2);
 65
      bat1.calculateAverage();
 66
 67
      bat1.display();
 68
       bow1.display();
 69
 70
       return 0;
 71 }
```