



# Name: Jawad Ahmed

Roll No: 20P-0165

1.cpp > main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main()
5  {
6      int age1, age2, age3, age4, age5;
7      cout << "Enter the Age of first Person : ";
8      cin >> age1;
9      cout << "Enter the Age of second Person : ";
10     cin >> age2;
11     cout << "Enter the Age of third Person : ";
12     cin >> age3;
13     cout << "Enter the Age of fourth Person : ";
14     cin >> age4;
15     cout << "Enter the Age of fifth Person : ";
16     cin >> age5;
17     cout << "The Person 1 has age = " << age1 << endl;
18     cout << "The Person 2 has a age = " << age2 << endl;
19     cout << "The Person 3 has a age = " << age3 << endl;
20     cout << "The Person 4 has a age = " << age4 << endl;
21     cout << "The Person 5 has a age = " << age5 << endl;
22     return 0;
23 }
```

```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_work_05$ cd "/home/namiirr/SEMESTERno2/oop_lab/lab_work_05/"1
Enter the Age of first Person : 12
Enter the Age of second Person : 12
Enter the Age of third Person : 45
Enter the Age of fourth Person : 65
Enter the Age of fifth Person : 7
The Person 1 has age = 12
The Person 2 has a age = 12
The Person 3 has a age = 45
The Person 4 has a age = 65
The Person 5 has a age = 7
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_work_05$ █
```

2.cpp > main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main()
5  {
6      int age[5];
7      for (int i = 0; i < 5; i++)
8      {
9          cout << "Enter User" << i + 1 << " Age = ";
10         cin >> age[i];
11     }
12
13     for (int i = 0; i < 5; i++)
14     {
15         cout << "The User  " << i + 1 << "Has a age = " << age[i] << endl;
16     }
17     return 0;
18 }
```

```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_work_05$ cd "/home/namiirr/SE
namiirr/SEMESTERno2/oop_lab/lab_work_05/"2
Enter User1 Age = 4
Enter User2 Age = 5
Enter User3 Age = 6
Enter User4 Age = 7
Enter User5 Age = 8
The User 1Has a age = 4
The User 2Has a age = 5
The User 3Has a age = 6
The User 4Has a age = 7
The User 5Has a age = 8
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_work_05$ █
```

```
1  #include <iostream>
2  using namespace std;
3
4  struct Person{
5      char name[30];
6      int age;
7      float salary;
8  };
9
10 int main()
11 {
12     Person p1, p2, p3, p4;
13     cout << "Enter the Student Name = ";
14     cin.getline(p1.name, 20);
15
16     cout << "Enter the Student Age = ";
17     cin >> p1.age;
18
19     cout << "Enter the Salary = ";
20     cin >> p1.salary;
21
22     cout << "The Person has a Name = " << p1.name << endl;
23     cout << "The Person has a Age = " << p1.age << endl;
24     cout << "The Person has a Salary = " << p1.salary << endl;
25
26     cin.ignore();
27     cout << "Enter the Student Name = ";
28     cin.getline(p2.name, 20);
29
30     cout << "Enter the Student Age = ";
31     cin >> p2.age;
32
33     cout << "Enter the Salary = ";
34     cin >> p2.salary;
35
36     cout << "The Person has a Name = " << p2.name << endl;
37     cout << "The Person has a Age = " << p2.age << endl;
38     cout << "The Person has a Salary = " << p2.salary << endl;
39     return 0;
40 }
```

```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_work_05$ cd "/home/namiirr/SEMESTERno2/oop_lab/lab_work_05/"
lab/lab_work_05/"3
Enter the Student Name = Jawad Ahmed
Enter the Student Age = 45
Enter the Salary = 45.6
The Person has a Name = Jawad Ahmed
The Person has a Age = 45
The Person has a Salary = 45.6
Enter the Student Name = Rustam Ali
Enter the Student Age = 45
Enter the Salary = 120
The Person has a Name = Rustam Ali
The Person has a Age = 45
The Person has a Salary = 120
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_work_05$
```

```
1  #include <iostream>
2  using namespace std;
3
4  struct Student{
5      char name[30];
6      int rollNo;
7      float marks;
8  };
9
10 int main()
11 {
12     Student student[3];
13     for (int i = 0; i < 3; i++)
14     {
15         cout << "Enter the Student " << i + 1 << "Name : ";
16         cin.getline(student[i].name, 25);
17
18         cout << "Enter the Roll No of " << i + 1 << "Age : ";
19         cin >> student[i].rollNo;
20
21         cout << "Enter the Marks of " << i + 1 << "Marks : ";
22         cin >> student[i].marks;
23         cin.ignore();
24     }
25
26
27     for (int i = 0; i < 3; i++)
28     {
29         cout << "The Student " << i + 1 << "Has a Name : " << student[i].name << endl;
30         cout << "The Student " << i + 1 << "Has a Roll NO  : " << student[i].rollNo << endl;
31         cout << "The Student " << i + 1 << "Has a Marks : " << student[i].marks << endl;
32     }
33     return 0;
34
35 }
```



```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_work_05$ cd "/home/namiirr  
lab/lab_work_05/"4  
Enter the Student 1Name : Rustam Ali  
Enter the Roll No of 1Age : 19  
Enter the Marks of 1Marks : 45  
Enter the Student 2Name : Jawad Ahmed  
Enter the Roll No of 2Age : 45  
Enter the Marks of 2Marks : 12  
Enter the Student 3Name : Ali Murtaza  
Enter the Roll No of 3Age : 12  
Enter the Marks of 3Marks : 45  
The Student 1Has a Name : Rustam Ali  
The Student 1Has a Roll NO : 19  
The Student 1Has a Marks : 45  
The Student 2Has a Name : Jawad Ahmed  
The Student 2Has a Roll NO : 45  
The Student 2Has a Marks : 12  
The Student 3Has a Name : Ali Murtaza  
The Student 3Has a Roll NO : 12  
The Student 3Has a Marks : 45  
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_work_05$ █
```

5.cpp > Get\_Data(Student)

```
1  #include <iostream>
2  using namespace std;
3
4  struct Student{
5      char name[30];
6      int rollNo;
7      float Marks;
8  };
9  Student Get_Data(Student s);
10 void Display_Data(Student s);
11
12 int main()
13 {
14     Student s;
15     s = Get_Data(s);
16     Display_Data(s);
17     return 0;
18 }
19
20 Student Get_Data(Student s)
21 {
22     cout << "Enter the Name of a Student: ";
23     cin.getline(s.name, 20);
24     cout << "Enter the Roll No  of the Student: ";
25     cin >> s.rollNo;
26     cout << "Enter the Marks of the Student: ";
27     cin >> s.Marks;
28     return s;
29 }
30
31 void Display_Data(Student s)
32 {
33     cout << "The Student has a Name: " << s.name << endl;
34     cout << "The Student has a Roll No : " << s.rollNo << endl;
35     cout << "The Studen has Marks: " << s.Marks << endl;
36 }
```

```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_work_05$ cd /home/namiirr/SEMESTERno2/oop_lab/lab_work_05/
lab/lab_work_05/"5
Enter the Name of a Student: Jawad Ahmed
Enter the Roll No  of the Student: 200165
Enter the Marks of the Student: 56
The Student has a Name: Jawad Ahmed
The Student has a Roll No : 200165
The Studen has Marks: 56
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_work_05$
```



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