

Module 4: Debugging and Logic

The screenshot shows an online C++ 17 Compiler IDE interface. On the left, the code editor displays a C++ program. The code includes a nested if-statement to determine the largest of three input numbers (n1, n2, n3). On the right, the execution results are shown in a panel titled 'Output'. The user has entered '2 5 7' as input arguments. The output shows the program's response: 'Enter three numbers: 2 5 7' followed by 'Largest number: 7'. A note at the bottom indicates the compilation and execution took 13.49 seconds.

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     float n1, n2, n3;
6
7     cout << "Enter three numbers: ";
8     cin >> n1 >> n2 >> n3;
9
10 // Nested if to find the largest number
11 if (n1 >= n2) {
12     if (n1 >= n3) {
13         cout << "Largest number: " << n1 << endl;
14     } else {
15         cout << "Largest number: " << n3 << endl;
16     }
17 } else { // n2 > n1
18     if (n2 >= n3) {
19         cout << "Largest number: " << n2 << endl;
20     } else {
21         cout << "Largest number: " << n3 << endl;
22     }
23 }
24
25 return 0;
26
27 }
```

Language version: g++ 17 GCC 13.2.1 Interactive Mode

Input arguments

Output Generated files

```
Enter three numbers: 2 5 7
Largest number: 7
```

Compiled and executed in 13.49 sec(s)