

Activity No. 2.1

<Replace with Title>

Course Code: CPE010

Program: Computer Engineering

Course Title: Data Structures and Algorithms

Date Performed: 8/7/2025

Section: CPE11S1

Date Submitted: 8/7/2025

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Instructor: Engr. Jimlord M. Quejado

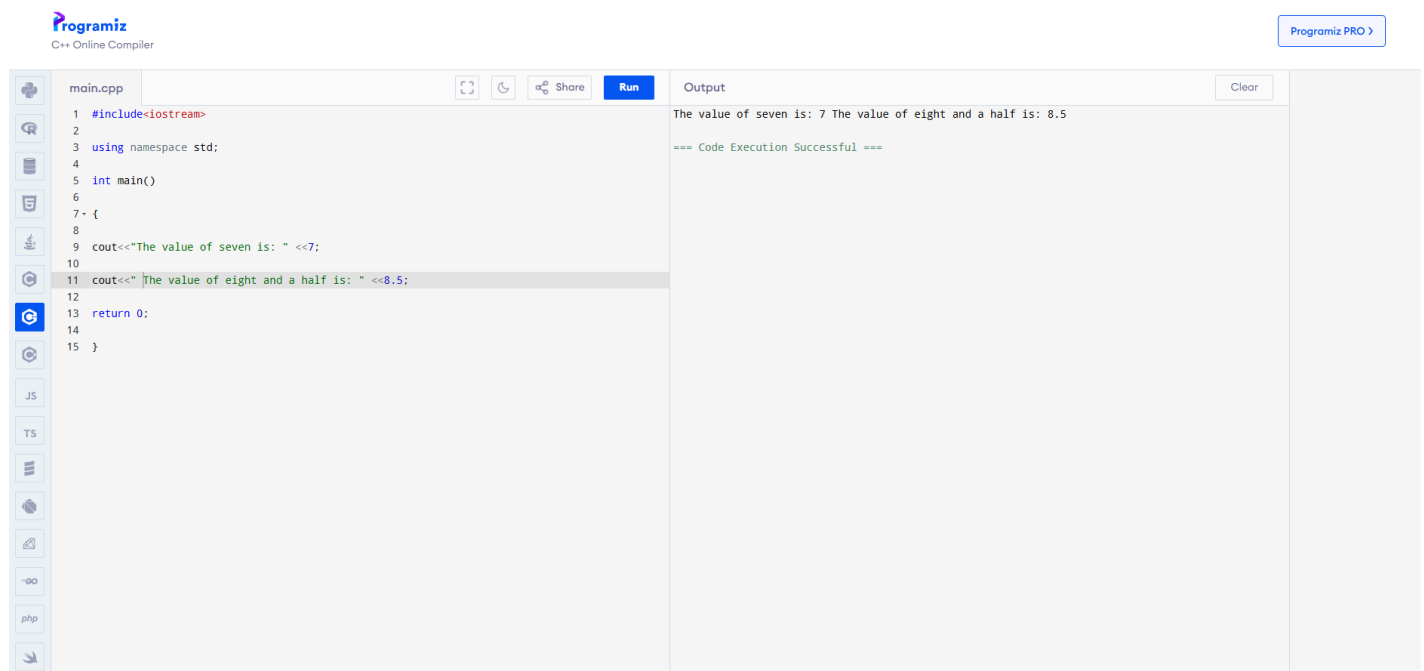
6. Output

Example 1: The following program has an output of:

The value of seven is: 7.000000

The value of eight and a half is: 8.500000

- There was an unnecessary comma in the code



The screenshot shows the Programiz C++ Online Compiler interface. On the left, the code editor displays a C++ program in `main.cpp`:

```
1 #include<iostream>
2
3 using namespace std;
4
5 int main()
6 {
7
8
9     cout<<"The value of seven is: " <<7;
10
11     cout<<"The value of eight and a half is: " <<8.5;
12
13     return 0;
14
15 }
```

On the right, the output window shows the result of the program execution:

```
The value of seven is: 7 The value of eight and a half is: 8.5
=== Code Execution Successful ===
```

The interface also includes a 'Run' button and a 'Clear' button for the output window.

Example 2: The following program has an output of:

The value of seven is: 7.000000

The value of eight and a half is: 8.500000

- Unnecessary space

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main.cpp

1 #include <iostream>

2

3 using namespace std;

4

5 int main()

6

7 {

8

9 cout<<"The value of seven is: "<< 7;

10

11 cout<<" The value of eight and a half is: "<<8.5;

12

13 return 0;

14

15 }

Run

Output

Clear

The value of seven is: 7 The value of eight and a half is: 8.5

--- Code Execution Successful ---

Example 3: The following program has an output of:

The value of half is: 0.500000

The value of Pi is: 3.141593

- It was lacking certain codes and had some unnecessary underscores and spaces

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main.cpp

1 #include <iostream>

2

3 using namespace std;

4

5 int main()

6

7 {

8

9 float halfValue = 0.5;

10

11 float piValue = 3.14159265;

12

13

14 cout<<"The value of half is: "<< halfValue;

15

16 cout<<" The value of Pi is: "<<piValue;

17

18 return 0;

19

20 }

Run

Output


Clear


The value of half is: 0.5 The value of Pi is: 3.14159

--- Code Execution Successful ---

Example 4: Sample program for Adding Two Integers











































- Some symbols were reversed

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main.cpp



Share

Run

Output

```

1 #include<iostream>
2
3 int main(void)
4
5 {
6
7     int xValue= 5;
8     int yValue=9;
9     int result;
10    int bigResult;
11
12    xValue += 3;
13    yValue -= xValue;
14    result = xValue * yValue;
15    result += result;
16    result -= 1;
17    yValue = result % result;
18    result += result + xValue;
19    bigResult = result * result * result;
20    result += xValue * yValue;
21
22    std::cout<<"result: "<<result << std::endl;
23
24    std::cout<<"big result: "<< bigResult;
25
26    return 0;
27 }
28
29

```

```

result: 38
big result: 54872

--- Code Execution Successful ---

```

main.cpp



Share

Run

Output

```

1 #include<iostream>
2
3 int main()
4
5 {
6
7     float startValue = 100;
8
9     float interestRate = 0.015;
10
11     float firstYearValue;
12
13     float secondYearValue;
14
15     float thirdYearValue;
16
17     firstYearValue = startValue * (1 + interestRate);
18     secondYearValue = firstYearValue * (1 + interestRate);
19     thirdYearValue = secondYearValue * (1 + interestRate);
20
21     std::cout<<"After first year: "<<firstYearValue << std::endl;
22     std::cout<<"After second year: "<<secondYearValue << std::endl;
23     std::cout<<"After third year: "<<thirdYearValue << std::endl;
24
25     return 0;
26
27 }

```

```

After first year: 101.5
After second year: 103.022
After third year: 104.568

```

```





--- Code Execution Successful ---

```

8. Conclusion

I learned that combining unique codes and patterns of phrases can make an interesting program even with some difficulties to code, it is still enjoyable to learn about. What I need to learn more about is how to make myself more knowledgeable when it comes to software.

9. Assessment Rubric

Rubric for SO 7 (6)							
Criteria	Ratings						Pts
 SO 7 PI 1 ILO4 Utilize lifelong learning skills in pursuit of personal development and excellence in professional practice. threshold: 4.8 pts	6 pts Excellent Educational interests and pursuits exist and flourish outside classroom; knowledge and/or experiences are pursued independently and applies knowledge learned into practice	5 pts Good Educational interests and pursuits exist and flourish outside classroom requirements; knowledge and/or experiences are pursued independently	4 pts Satisfactory Look beyond classroom requirements, showing interest in pursuing knowledge independently	3 pts Unsatisfactory Begins to look beyond classroom requirements, showing interest in pursuing knowledge independently	2 pts Poor Relies on classroom instruction only	1 pts Very Poor No initiative or interest in acquiring new knowledge	6 pts
 SO 7 PI 2 ILO4 Utilize lifelong learning skills in pursuit of personal development and excellence in professional practice. threshold: 4.8 pts	6 pts Excellent Completes an assigned task independently and practices continuous improvement	5 pts Good Completes an assigned task without supervision or guidance	4 pts Satisfactory Requires minimal guidance to complete an assigned task	3 pts Unsatisfactory Requires detailed or step-by-step instructions to complete a task	2 pts Poor Shows little interest to complete a task independently	1 pts Very Poor No interest to complete a task independently	6 pts
 SO 7 PI 3 ILO4 Utilize lifelong learning skills in pursuit of personal development and excellence in professional practice. threshold: 4.8 pts	6 pts Excellent Synthesizes and integrates information from a variety of sources; formulates a clear and precise perspective; draws appropriate conclusions	5 pts Good Evaluate information from a variety of sources; formulates a clear and precise perspective.	4 pts Satisfactory Analyze information from a variety of sources; formulates a clear and precise perspective.	3 pts Unsatisfactory Apply the gathered information to formulate the problem	2 pts Poor Gather and summarized the information from a variety of sources but failed to formulate the problem	1 pts Very Poor Gather information from a variety of sources	6 pts
 SO 7 PI 4 ILO4 Utilize lifelong learning skills in pursuit of personal development and excellence in professional practice. threshold: 4.8 pts	6 pts Excellent Ideas are combined in original and creative ways in line with the new and emerging technology trends to solve a problem or address an issue.	5 pts Good Ideas are creative and adapt the new knowledge to solve a problem or address an issue	4 pts Satisfactory Ideas are creative in solving a problem, or address an issue	3 pts Unsatisfactory Shows some creative ways to solve the problem	2 pts Poor Shows initiative and attempt to develop creative ideas to solve the problem	1 pts Very Poor Ideas are copied or restated from the sources consulted	6 pts
Total Points: 24							