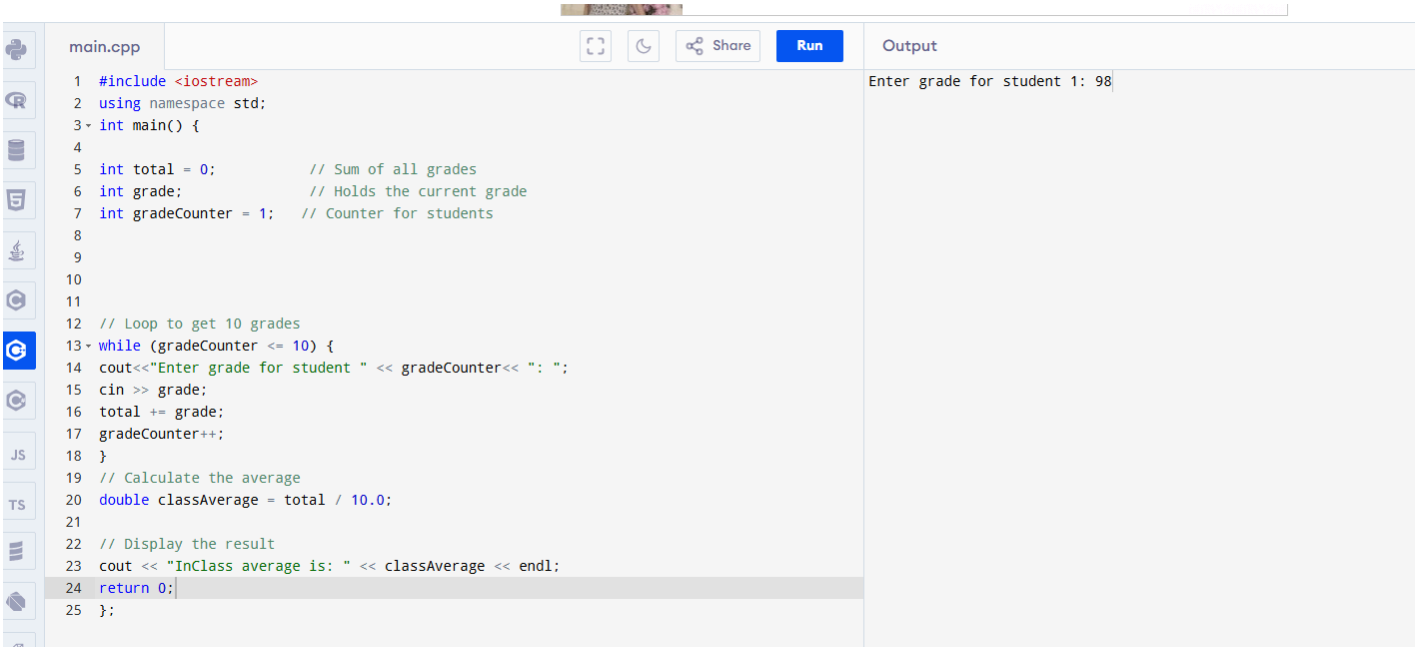
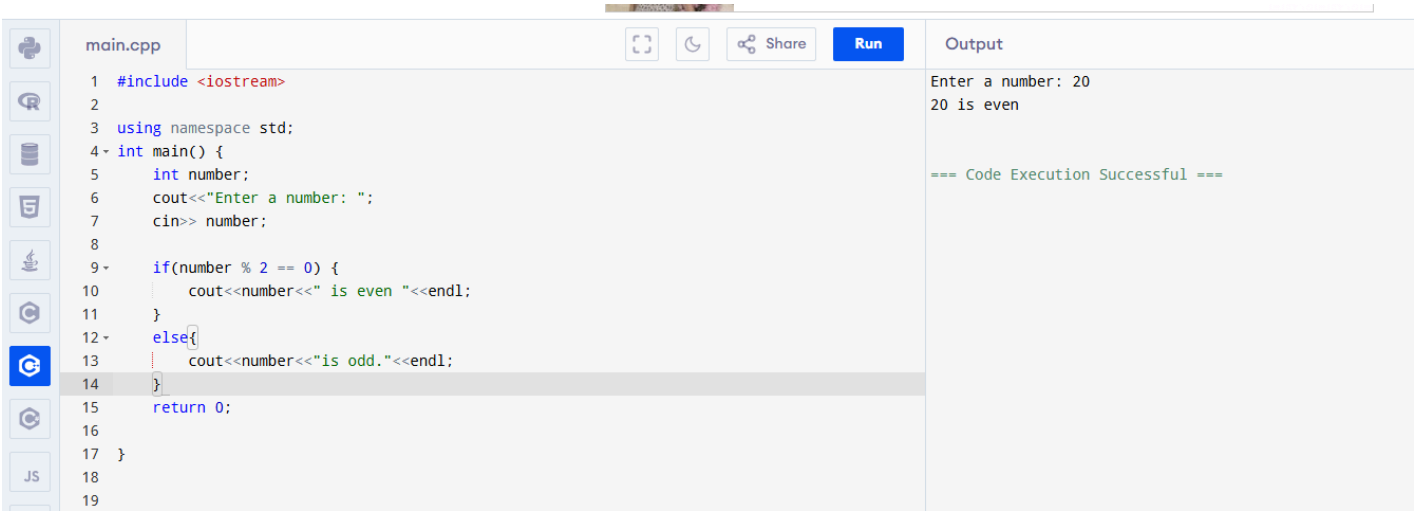
Activity No. 2.2	
<Replace with Title>	
Course Code: CPE010	**Program:** Computer Engineering
Course Title: Data Structures and Algorithms	**Date Performed:** 8/12/2025
Section: 11S1	**Date Submitted:** 8/12/2025
Name(s): Marqui Joshua Cenar	**Instructor:** Engr. Jimlord M. Quejado

6. Output



7. Supplementary Activity



C++ Online Compiler

main.cpp

Share | Run

```cpp
#include <iostream>

using namespace std;
int main() {
    int age;
    double fare = 10.0; // Base fare


    cout << "Enter your age: ";
    cin>> age;

    if(age >= 60) {
        fare -= fare * 0.10;
    }
    else if (age >= 0 && age <= 25) {
        fare -= fare * 0.08;
    }
    if (fare<9.0) {
        fare = 0.0;
    }
    cout << "Your fare is: " << fare << " pesos. " << endl;

    return 0;
}
```

Output

```
Enter your age: 60
Your fare is: 9 pesos.


=== Code Execution Successful ===
```


main.cpp

Share | Run

```cpp
#include <iostream>
using namespace std;

int main() {
    int grade;
    int total = 0;
    int counter = 0;
    double average;

    cout << "Enter your grade (-1 to stop): ";
    cin >> grade;

    while (grade != -1){
        total += grade;
        counter++;
        cout << " 1.25 (-1 to stop): ";
        cin >> grade;
    }

    if (counter != 0) {
        average = static_cast<double>(total) / counter;
        cout << "Class average is " << average << endl;
    } else {
        cout << "No grades were entered." << endl;
    }
    return 0;
}
```

Output | Clear

```
Enter your grade (-1 to stop):90
Enter your grade (-1 to stop):91
Enter your grade (-1 to stop):92
Enter your grade (-1 to stop):93
Enter your grade (-1 to stop):94
Enter your grade (-1 to stop):95
Enter your grade (-1 to stop):96
Enter your grade (-1 to stop):97
Enter your grade (-1 to stop):98
Enter your grade (-1 to stop):99
Enter your grade (-1 to stop): -1
Class average is:94
```

8. Conclusion

I learned that doing these programs to make or manipulate a computer to have decisions using “if” and “else” statements.

9. Assessment Rubric

Rubric for SO 7 (7)

Criteria	Ratings						Pts
SO 7 PI 1 IILO4 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 requirements,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 IILO4 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 IILO4 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 IILO4 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