

Hands-on Activity 2.1	
Data Types and Arithmetic Operations	
Course Code: CPE007	Program: Computer Engineering
Course Title: Programming Logic and Design	Date Performed: 8/4/25
Section: CPE11S1	Date Submitted: 8/4/25
Name(s): Paula Esguerra	Instructor: Sir Jimlord Quejado

6. Output

Programiz C++ Online Compiler

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 ===

Activity 1

Programiz C++ Online Compiler

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 ===

Activity 2

7. Supplementary Activity

8. Conclusion

I learned that combining symbols, characters, operators and etc..., can make an interesting math solutions even with the percentage, I just have to know how to know it's whereabouts in C++ Coding.

9. Assessment Rubric

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