

Activity No. 4.1

SWITCH CASE

Course Code: CPE 007	Program: Computer Engineer
Course Title: Programming Logic and Design	Date Performed: 9/9/2025
Section: CPE11S1	Date Submitted: 9/10/2025
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6. Output

Coding and Output :

The screenshot shows a code editor interface with two code snippets in main.cpp and their corresponding outputs.

Code Snippet 1 (Top):

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int physics;
6     int biology;
7     int math;
8     float average;
9     int choice;
10
11    cout << "Enter Physics Mark : ";
12    cin >> physics;
13    cout << "\nEnter Biology Mark : ";
14    cin >> biology;
15    cout << "\nEnter Math Mark : ";
16    cin >> math;
17    cout << "\n-----\n";
18
19    average = (physics + biology + math) /3 ;
20    cout << "Physics : " << physics;
21    cout << "\nBiology : " << biology;
22    cout << "\nMath : " << math;
23    cout << "\n-----\n";
24    cout << "Average : " << average << "\n";
25
```

Output 1:

```
Enter Physics Mark : 90
Enter Biology Mark : 87
Enter Math Mark : 79
-----
Physics : 90
Biology : 87
Math : 79
-----
Average : 85
Grade : B

== Code Execution Successful ==
```

Code Snippet 2 (Bottom):

```
25
26     if (average >= 90)
27         choice = 1;
28     else if (average >= 80)
29         choice = 2;
30     else if (average >= 70)
31         choice = 3;
32     else if (average >= 60)
33         choice = 4;
34     else if (average >= 50)
35         choice = 5;
36     else
37         choice = 6;
38
39     switch (choice){
40         case 1:
41             cout << "Grade : A\n";
42             break;
43
44         case 2:
45             cout << "Grade : B\n";
46             break;
47
48         case 3:
49             cout << "Grade : C\n";
```

Output 2:

```
Enter Physics Mark : 90
Enter Biology Mark : 87
Enter Math Mark : 79
-----
Physics : 90
Biology : 87
Math : 79
-----
Average : 85
Grade : B

== Code Execution Successful ==
```

The screenshot shows a C++ IDE interface with the following details:

- File:** main.cpp
- Toolbar:** Includes icons for file operations, run, share, and run.
- Code Area:** Contains the following C++ code:

```
44     case 2:
45     cout << "Grade : B\n";
46     break;
47
48     case 3:
49     cout <<"Grade : C\n";
50     break;
51
52     case 4:
53     cout <<"Grade : D\n";
54     break;
55
56     case 5:
57     cout <<"Grade : E\n";
58     break;
59
60     case 6:
61     cout <<"Grade : F\n";
62     break;
63 }
64
65
66
67 return 0;
68 }
```
- Output Area:** Displays the following terminal-like output:

```
* Enter Physics Mark : 90
Enter Biology Mark : 87
Enter Math Mark : 79
-----
Physics : 90
Biology : 87
Math : 79
-----
Average : 85
Grade : B
-----
*** Code Execution Successful ***
```

Pseudo Code :

Start

Input Physics
Input Biology
Input Math

Compute Average = (Physics + Biology + Math) /3

If average >= 90 then choice = 1

Else if average >= 80 then choice = 2

Else if average >= 70 then choice = 3

Else if average >= 60 then choice = 4

Else if average >= 50 then choice = 5

Else thenchoice = 6

Display Physics

Display Biology

Display Math

Display Average

Switch (Choice)

Case 1: Display “Grade : A”

Case 2: Display “Grade : B”

Case 3: Display “Grade : C”

Case 4: Display “Grade : D”

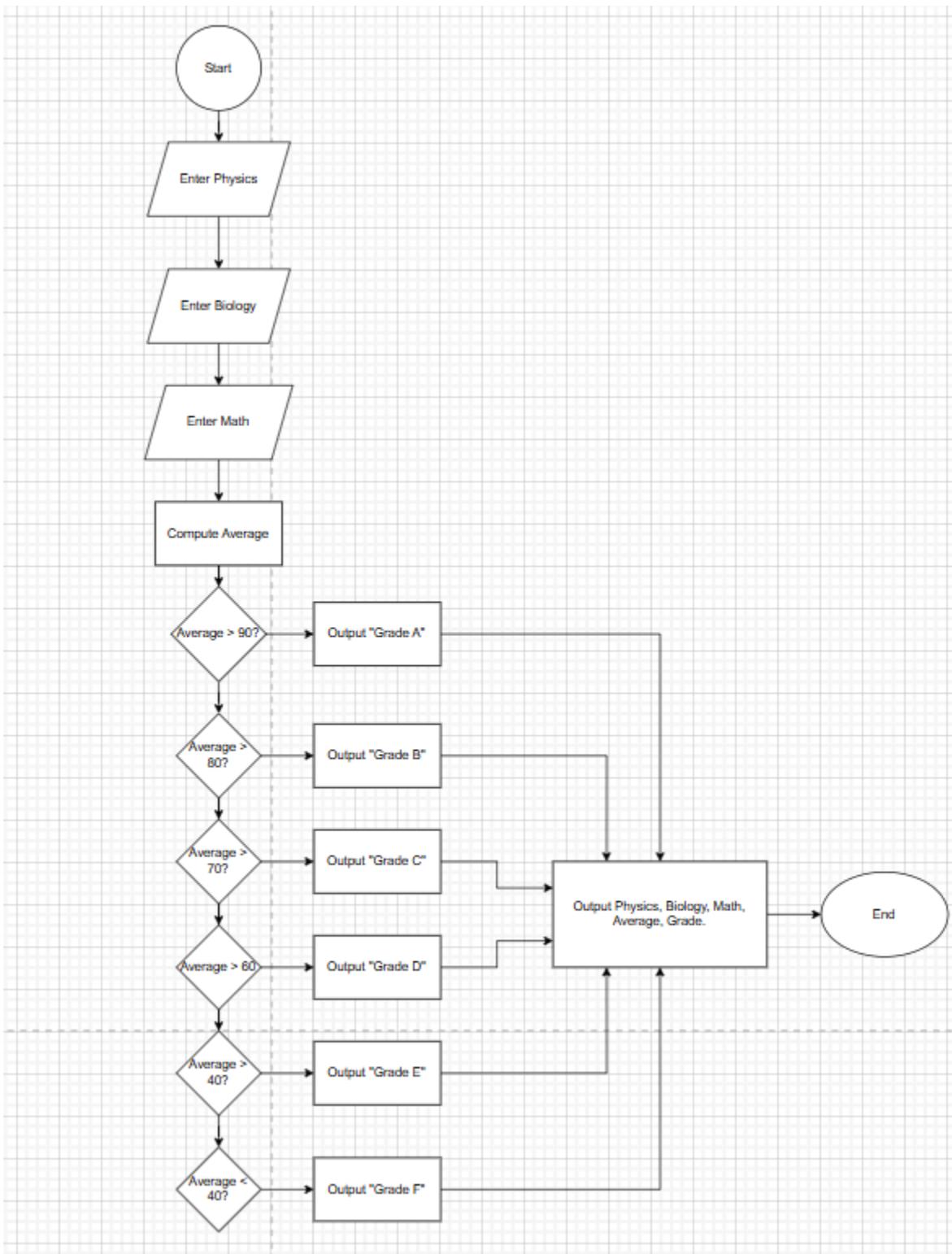
Case 5: Display “Grade : E”

Case 6: Display “Grade : F”

End Switch

End

Flowchart :



7. Supplementary Activity

8. Conclusion

I was able to review switch, flowcharting and pseudo code in this activity. Reviewing this again helped me further understand this topic better, this activity helped me to be more organized in coding, flowcharting and doing pseudo code, it might not be perfect yet but I can see from myself that I'm improving bit by bit.

9. Assessment Rubric

Rubric for SO 7 (9)						
Criteria		Ratings				Pts
④ SO 7 PI 1 ILLO4 Utilize lifelong learning skills in pursuit of personal development and excellence in professional practice. threshold: 4.8 pts	6 pts Excellent Educational interests and pursues 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 pursues 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
④ SO 7 PI 2 ILLO4 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
④ SO 7 PI 3 ILLO4 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
④ SO 7 PI 4 ILLO4 Utilize lifelong learning skills in pursuit of personal development and excellence in professional practice. threshold: 4.8 pts	6 pts Excellent Ideas are confined 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