

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

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6. Output

Coding and Output :

```
main.cpp  [Icons]  Run  Output  Clear

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 }
```

```
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 ===
```

```
main.cpp  [Icons]  Run  Output  Clear

26
27     if (average >= 90)
28         choice = 1;
29     else if (average >= 80)
30         choice = 2;
31     else if (average >= 70)
32         choice = 3;
33     else if (average >= 60)
34         choice = 4;
35     else if (average >= 50)
36         choice = 5;
37     else
38         choice = 6;
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";
```

```
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 ===
```

```
main.cpp
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

```
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 then choice = 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"

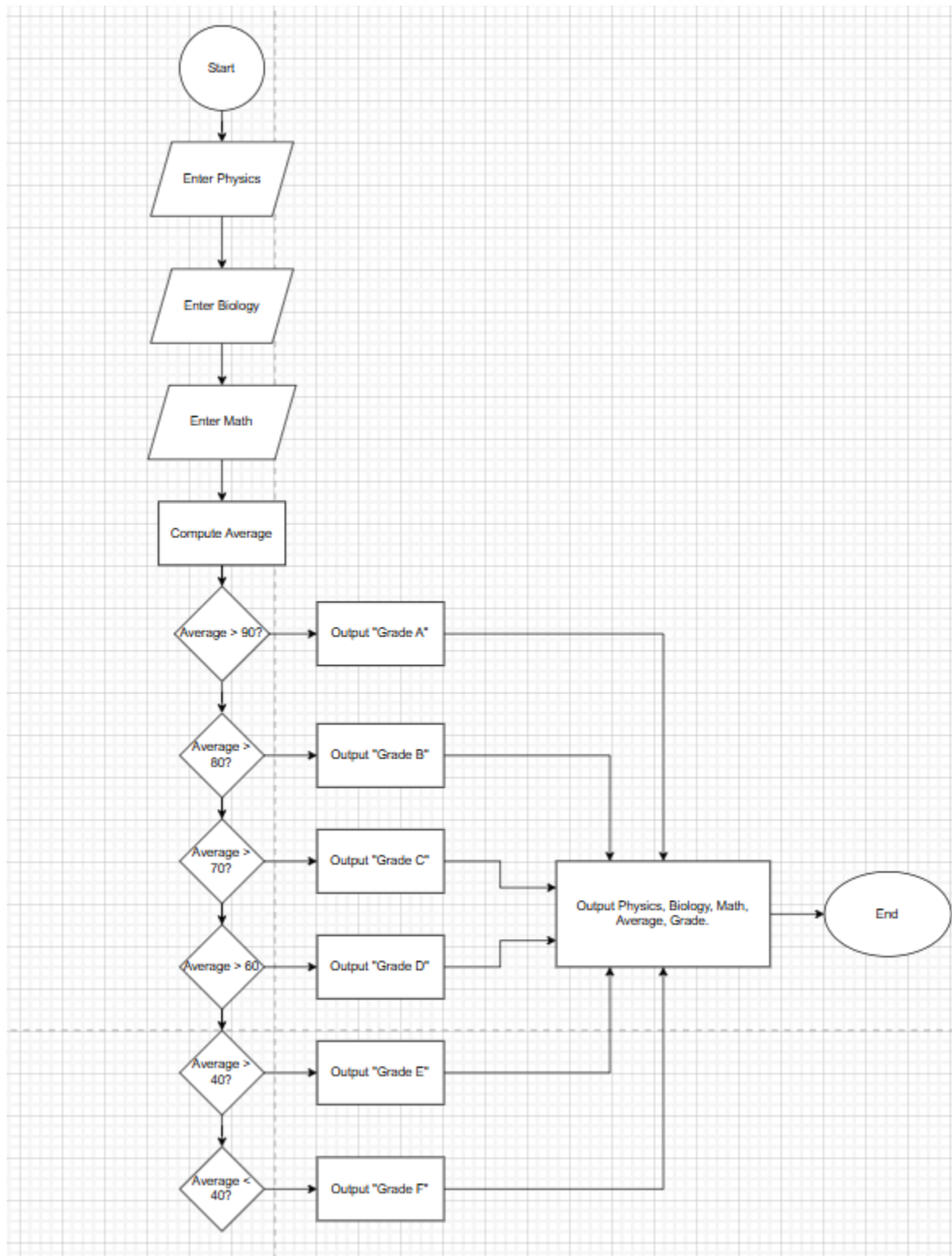
Case 5: Display "Grade : E"

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)								Pts
Criteria		Ratings						
SO 7 P1.1	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 threshold: 4.8 pts	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 P1.2	6 pts Excellent Completes an assigned task independently and practices continuous improvement threshold: 4.8 pts	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 P1.3	6 pts Excellent Synthesizes and integrates information from a variety of sources; formulates a clear and precise perspective; draws appropriate conclusions threshold: 4.8 pts	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 summarize 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 P1.4	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. threshold: 4.8 pts	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								