

Midterm	
Midterm Skills Exam	
Course Code: CPE 007	Program: Computer Engineering
Course Title: Programming Logic and Design	Date Performed: 10/9/2025
Section: CPE11S1	Date Submitted: 10/9/2025
Name(s): Canoy Hail B.	Instructor: Engr. Jimlord M. Quejado
6. Output	
7. Supplementary Activity	
<p style="text-align: center;">Set A: Student Average Grade Calculator</p> <p style="text-align: center;">Problem Description:</p> <p style="text-align: center;">Create a program that records the grades of several students and computes their average grades. Use structures to store each student's data, arrays to handle multiple students, and loops for data input and processing. (5pts)</p> <p style="text-align: center;">Tasks:</p> <ol style="list-style-type: none"> 1. Ask the user how many students to enter (maximum 10). (5pts) 2. For each student, input: (10 pts) <ul style="list-style-type: none"> ○ Name ○ Student Number ○ 3 grades 3. Compute the average grade for each student. (10pts) 4. Display a summary table showing: (10pts) <ul style="list-style-type: none"> ○ Student Name ○ Student Number ○ Grades ○ Average 5. Display the student with the highest average at the end. (10pts) 	

Sample Output:

Enter number of students: 2

Enter details for student 1:

Name: Jimlord Quejado

Student Number: 2025-1001

Enter 5 grades:

85

90

88

Enter details for student 2:

Name: Maria Santos

Student Number: 2025-1002

Enter 5 grades:

78

82

80

STUDENT GRADE REPORT

Name	Student No.	Grades	Average
Jimlord Quejado	211600000	85 90 88	88.40
Maria Santos	211602394	78 82 80	80.80

Top Student: Jimlord Quejado (Average: 88.40)

Code :

```
1  #include <iostream>
2  #include <string>
3  using namespace std;
4
5  int main (){
6      int numberofstudents1;
7      string name1;
8      string surname1;
9
10     int studentnumber1;
11     float a, b, c;
12
13     cout << "Enter Number of Students : ";
14     cin >> numberofstudents1;
15
16     cout << "Enter Details for Student 1 : " << endl;
17     cout << "Name : ";
18     cin >> name1 >> surname1;
19     cout << "Student Number : ";
20     cin >> studentnumber1;
21     cout << "Enter 3 Grades : " ;
22     cin >> a >> b >> c;
23     cout << endl;
24
25     float total1 = (a + b + c) /3 ;
26
27     string name2;
28     string surname2;
29     int studentnumber2;
30     float grade2;
31     float a2, b2, c2;
32
33
34     cout << "Enter Details for Student 2 : " << endl;
35     cout << "Name : ";
36     cin >> name2 >> surname2;
37     cout << "Student Number : ";
38     cin >> studentnumber2;
39     cout << "Enter 3 Grades : " ;
40     cin >> a2 >> b2 >> c2;
41     cout << endl;
42
43     float total2 = (a2 + b2 + c2) /3 ;
44
```

```

cout << "Enter Details for Student 2 : " << endl;
cout << "Name : ";
cin >> name2 >> surname2;
cout << "Student Number : ";
cin >> studentnumber2;
cout << "Enter 3 Grades : ";
cin >> a2 >> b2 >> c2;
cout << endl;

float total2 = (a2 + b2 + c2) / 3 ;

cout << "-----" << endl;
cout << "                      STUDENT GRADE REPORT" << endl;
cout << "-----" << endl;

cout << "Name" << "\t\t" << "Student Number" << "\t\t" << "Grade" << "\t\t" << "Average" << endl;
cout << "-----" << endl;
cout << name1 << " " << surname1 << "\t" << studentnumber1 << "\t\t" << "a" << " " << b << " " << c << "\t" << total1 << endl;
cout << name2 << " " << surname2 << "\t" << studentnumber2 << "\t\t" << "a" << " " << b2 << " " << c2 << "\t" << total2 << endl;
cout << "-----" << endl;

if ( total1 > total2 ) {
    cout << "Top Student : " << name1;
}
else {
    cout << "Top Student : " << name2;
}

return 0;
}

```

Output :

```

Enter Number of Students : 2
Enter Details for Student 1 :
Name : Hail Canoy
Student Number : 2513310
Enter 3 Grades : 87 89 84

```

```

Enter Details for Student 2 :
Name : JennyLyn Molina
Student Number : 2516621
Enter 3 Grades : 98 97 99

```

STUDENT GRADE REPORT			
Name	Student Number	Grade	Average
Hail Molina	2513310	87 89 84	86.6667
JennyLyn Molina	2516621	98 97 99	98

```

Top Student : JennyLyn

```

```

Process exited after 72.6 seconds with return value 0
Press any key to continue . . . |

```

8. Conclusion

- This midterm exam is still hard for me and I'm not that prepared for this because of my memorization skills. I messed up using the structure that's why I did plan b, because if I forget even one in the structure it will not work anymore. Because of my memorization skills I got blanked out in this test even though I already reviewed and tried structure multiple times, I will try and try again to be a better programmer. Overall this midterm skills exam shocked me because even though I know what I'm supposed to do I keep forgetting how to do it, I need to practice more and more not to be perfect but just to be better.
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