



University of Central Punjab

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FACULTY OF INFORMATION TECHNOLOGY

Introduction to Computer

Section A5

Assignment No.	02
Topic(s)	<ul style="list-style-type: none">Control StructureLoops (For loop)
Instructions	<p>Make a folder with your Registration no. and section e.g. L1F21BSCS0000_A5. Put all .cpp files in this folder with proper naming e.g. solution_1.cpp. Compress this folder (.zip) and submit it.</p> <p>You have to submit this assignment on CMS portal. You can find a submission there.</p>
Submission Deadline	<p><i>Tuesday December 14, 2021 11:59 pm</i></p> <p>No extension in any case</p>

Question No. 01

Write a computer program in C++ that ask user to enter two integer values V1 and V2. Your program then prints V2 even values starting from V1 e.g., if user enters 15 and 4 respectively for V1 and V2, it should print first 4 even values starting from 15 i.e. 16, 18, 20, and 22

Hint: Use for loop

Expected Output:

Enter value for V1 (starting point): **74**
Enter value for V2 (no. of values): **7**

Output:

1. 74
2. 76
3. 78
4. 80
5. 82
6. 84
7. 86

Question No. 02

Write a computer program in C++ that reads integer value(s) from user until user enters -1. Finally, program displays the SUM and multiplication of all values entered. Please note that don't include -1 while taking sum or multiplication of values.

Expected Output:

Please enter an integer value: 5
Please enter an integer value: 74
Please enter an integer value: 2
Please enter an integer value: 3
Please enter an integer value: 41
Please enter an integer value: -1

Output:

Sum of value(s) is: 125
Multiplication of value(s) is: 91020

Question No. 03

Write a program in C++ that ask user to enter two integer values S1 and S2; the starting point and ending point of a range. Your program then should calculate:

1. *The sum of all values in between S1 and S2*
2. *The average of all values in between S1 and S2*
3. *Standard deviation of all values in between S1 and S2 (Please search on google about standard deviation)*

Your program should display an error if user enters $S2 \leq S1$ i.e., starting point should be less than ending point.

Your program then displays a menu to user to choose 1 option either for displaying sum, average or standard deviation.

For example:

Press 1 to display Sum of all values
Press 2 to display Average of values
Press 3 to display Standard-Deviation of values
Your choice:

Expected Output:

Sample 1:

Enter starting point: 2
Enter ending point: 6

Press 1 to display Sum of all values
Press 2 to display Average of values
Press 3 to display Standard-Deviation of values
Your choice: 1

Sum of values from 2 to 6 is: 20

Sample 2:

Enter starting point: **10**

Enter ending point: 14

Press 1 to display Sum of all values

Press 2 to display Average of values

Press 3 to display Standard-Deviation of values

Your choice: 2

Average of values from 10 to 14 is: 12

Best of Luck