

O b j e c t O r i e n t e d P r o g r a m m i n g

H o m e W o r k 0 1

Home Work 01

Marks 10

Instructions

Work on this home work individually. **Absolutely NO collaboration is allowed. Any traces of plagiarism would result in a ZERO marks in this homework and possible disciplinary action.** All files should have the same name as of the tasks and coded in C++.

Due Date

Paste the solution(s) folder of the problems (source code .cpp files only) labeled with your complete roll number in SEM – HW 01 and SEA – HW 01 folders for SE Morning and SE Afternoon sections respectively on Thursday, March 03, 2016 before 05:00 PM. These folders are available at \\printsrv\Teacher Data\Umair Babar\Students.

Task 01

[03]

Write a program that will take three parameters of integer type from user and display the table of the required value from the starting limit to ending limit (starting limit < ending limit). The first parameter will be the table value, second will be the starting limit and third will be the ending limit.

Sample Execution 01	Sample Execution 02	Sample Execution 03
Enter Table Value: <u>2</u> Enter Start Limit: <u>0</u> Enter End Limit: <u>10</u> 2 x 0 = 0 2 x 1 = 2 2 x 10 = 20	Enter Table Value: <u>3</u> Enter Start Limit: <u>5</u> Enter End Limit: <u>15</u> 3 x 5 = 15 3 x 6 = 18 3 x 15 = 45	Enter Table Value: <u>5</u> Enter Start Limit: <u>-1</u> Enter End Limit: <u>-5</u> Error, end limit must be greater than the start limit.

Task 02

[03]

One large chemical company pays its salespeople on a commission basis. The salespeople receive Rs. 200 per week plus 9 percent of their gross sales for that week. For example, a sales person who sells Rs. 5000 worth of chemicals in a week receives Rs. 200 plus 9 percent of Rs. 5000, or a total of Rs. 650. Develop a program that will input each salesperson's gross sales for last week and will calculate and display that salesperson's earnings. Process one salesperson's figures at a time. The program will continue its execution until a user enters a sentinel value -1.

Sample Execution

Enter sales in rupees (-1 to end): <u>5000.00</u> Salary is: Rs. 650.00 Enter sales in rupees (-1 to end): <u>1234.56</u> Salary is: Rs. 311.11 Enter sales in rupees (-1 to end): <u>-1</u>
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Task 03

[04]

One interesting application of computers is drawing graphs and bar charts (sometimes called "histograms"). Write a program that reads five numbers (each between 1 and 30). For each number read, your program should print a line containing that number of adjacent asterisk.

Sample Execution 01	Sample Execution 02	Sample Execution 03
Enter number 1: <u>5</u> Enter number 2: <u>7</u> Enter number 3: <u>4</u> Enter number 4: <u>2</u> ***** ***** **** **	Enter number 1: <u>1</u> Enter number 2: <u>3</u> Enter number 3: <u>4</u> Enter number 4: <u>5</u> * *** **** *****	Enter number 1: <u>5</u> Enter number 2: <u>0</u> Enter number 3: <u>4</u> Enter number 4: <u>-1</u> ***** Invalid value **** Invalid value

NOTE: - No submission will be accepted after the due date and time.

B E S T O F U C X