Object Oriented Programming
Home Work 02

Home Work 02   **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 02 and SEA – HW 02 folders for SE Morning and SE Afternoon sections respectively on Monday, March 07, 2016 before 05:00 PM. These folders are available at \\printsrv\Teacher Data\Umair Babar\Students.

Task 01   [02]

Write a program that reads in and swap the contents of two equal size arrays named A and B of 10 elements. The program should clearly show array contents and the result.

Sample Execution

Contents of array A before swap:	1 2 3 4 5 6 7 8 9 10
Contents of array B before swap:	11 12 13 14 15 16 17 18 19 20
Contents of array A after swap:	11 12 13 14 15 16 17 18 19 20
Contents of array B after swap:	1 2 3 4 5 6 7 8 9 10

Task 02   [02]

Write a program that reads in a find out the total number of digits, blank spaces, punctuations, upper and lower case letters from a character array of size 20. *[Hint: use ctype.h]*

Sample Execution

Original contents of array:	PuCiT 111 – 923 – 923.
Total number of digits:	9
Total number of blank spaces:	5
Total number of punctuations:	3
Total number of upper case characters:	3
Total number of lower case characters:	2

Task 03   [03]

Write a program having functions `takeInput()` that takes input from user and `rollDice()` that simulates rolling a pair of dice until the total on the dice comes up to be a given number. The number that you are rolling for is a parameter to the function. The number of times you have to roll the dice is the return value of the function. You can assume that the parameter is one of the possible totals: 2, 3, …, 12. Use your function in a program that computes and prints the number of rolls it takes to get snake eyes.

Sample Execution 01		Sample Execution 02	
Please enter required total for dice:	3	Please enter required total for dice:	12
Total number of rolls taken:	5	Total number of rolls taken:	15

Task 04   [03]

Write a program having a function named `greet()` that asks the user's name, and then greets the user by name. Before outputting the user's name, convert it to upper case letters. For example, if the user's name is umair, then the program should respond "Hello, UMAIR, nice to meet you!"

Sample Execution

Please enter your name:	umair bAbAr
(The program respond):	Hello, UMAIR BABAR

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

BEST OF LUCK