

## COMSATS University Islamabad, Abbottabad Campus

**Department of Computer Science**

**Assignment 1**

**Programming Fundamentals CSC 103**

**Class: BCS 2C**

**By: Muhammad Ali Iqbal**

Attempt all the questions, take snippets of your codes as well as the outputs. You should write your own code there should not be any plagiarized code

1. Write a program that takes any ASCII value from user and display next five char after that ASCII value.

**2.** Write a program that reads a four-digit number from user, then the program separates digits of the number e.g. 4567 to be displayed as:

**3.** Write a program that finds the area of a triangle given the length of its sides: a, b, c.

**4.** Write a program that inputs a 4-digit value from the user (for example 6382) and displays a result with an increment of 1 in each digit (i.e. 7493)

5. Write a program that takes any ASCII value from user and display next five char after that ASCII value.

**6.** Write a program that reads a four-digit number from user, then the program separates digits of the number e.g. 4567 to be displayed as:

**7.** Input 5 values from the user and display the number of positives, the number of negatives and the number of zeros amongst the 5 values.

8. Prompt the user to input a character and display whether it is a vowel or constant using switch statement.

9Ask the user to enter marks obtained in a course and the total marks of the course. Then display a menu

Press 1 to calculate percentage.

Press 2 to display grade.

If the user presses 1 then percentage should be displayed and if the user presses 2 the grade against the marks should be displayed. (Hint: use switch statement for menu selection and else if to display the grade).

10. Prompt the user to enter 3 values. For any equal values, the program should display the numbers that are equal. (For example user input 34,6,34 the program should display the message that the 1st and 3rd values are equal).