



COMSATS University Islamabad
Sahiwal Campus
(Department of Computer Science)

Assignment 1 FA23

Course Title:	Data Structures and Algorithms	Course Code:	CSC211	Credit Hours:	4
Course Instructor:	Ms. Tahreem Saeed	Programme:	BSCS		
Semester:	3	Batch:	-	Section:	-
Time Allowed:		Deadline:	26-10-2023	Maximum Marks:	10
Student's Name:		Reg. No.	CUI/		/SWL
Important Instructions / Guidelines:					
<i>Read the question paper carefully and answer the questions according to their statements. Mobile phones are not allowed. Calculators must not have any data/equations etc. in their memory.</i>					

Question 1: Write down C/C++ Codes for the following functions of strings data structure:

- a. Removing punctuations from a given string
- b. Rearrange characters in a string such that no two adjacent are same
- c. Program to check if input is an integer or a string
- d. C++ program to find second most frequent character
- e. C++ Program to Sort an array of names or strings
- f. C++ program to concatenate a string given number of times
- g. `std::string::append` vs `std::string::push_back()` vs Operator `+=` in C++
- h. Comparing two strings in C++
- i. Extract all integers from string in C++
- j. C++ program to Replace a word in a text by another given word