



University of Central Punjab

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FACULTY OF INFORMATION TECHNOLOGY

Programming Fundamentals

Assignment 02 (PF-A)

Instructions

Deadline: May 03, 2020, 11:59:59 pm

- You can only submit on CMS Portal. Submission by any other means, will not be considered.
- No late submission in any case will be accepted
- Copying from others will result in Zero (For both parties.)
- Put all *.cpp files into a folder and compress it
- Rename compressed folder with your Registration No.
- Send only *.cpp files of code

Question No. 01

Suppose you have a file(.txt) in your system containing some text. You are required to write a C++ program with a function (**Name: GetUserInput**) which ask user to enter **File Name** and a **character** of his/her/user's choice. Your program then, find all words in this file starting with that particular character (*Entered by the user*) and store them in an array(**of type char/string**). This process of finding and storing particular data(words) should be performed in a function (**Name: ProessFile**). Finally, another user defined function (**Name: DisplayOuput**) displays all words (*starting with entered character*) on screen along with count of related words and total words found in file.

Sample output:

Please Enter File Name: CoronaDocumentary.txt	CoronaDocumentary.txt (Sample Text File) The 2019–20 coronavirus pandemic is an ongoing pandemic of coronavirus disease 2019 (COVID-19) caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The outbreak was identified in Wuhan, China, in December 2019.
Please enter a character : c	
Total words found: 31	
Total Related words found: 6	
List of (Unique)words is given below:	
Coronavirus caused	
CoV-2 China	

Question No. 02

Write a C++ program which have a user defined function (**Name: GenerateRandomWords**) whose functionality is to generate random words using english alphabets e.g. Different website offer random generated password to use. Save All these words in text File (**Name: Output.txt**) as well as in an array of type string.

Now, define another function (**Name: IdentifyDuplicateWords**) which identify how many words are generated/repeated more than once.

Note:

- *No. of words to be generate is to taken by user at run time*
- *There should be check on input to ask user to generate at least 1000 words.*
- *Minimun and maximum lengh of words to be generated is also to be taken by user*

Sample output:

How many words you want to generate:	1485
What should be the min lengh of word:	3
What should be the maximum length of word:	7

Output:

Total words which are generated twice or more: 57

List of these words is as following:

Kdi	mmsl	ikdld	bca	pdwkdkd
.				
.				
.				
Kjdfi	abc			