

National University of Computer and Emerging Sciences



**Lab**  
**For**  
**Programming Fundamentals Lab**

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**FAST School of Computing**

## Instructions:

1. Make a word document with the convention “SECTION\_Assignment#\_ROLLNO” and put all your source code and snapshots of its output in it.
2. Plagiarism is strictly prohibited, if you take a code snippet off the internet, mention its reference.
3. Do not discuss solutions with one another.

## Task 01:

Suppose you are required to make a software that will take input data of students' information from the user and you are to save it permanently.  
Now we've studied file handling and we know that to save content on the disk it is highly useful. You are required to create the following functions:

```
bool saveDataToFile(string name, int rollNum, int CNIC, string degree, string
fileName);
//this function would take data of one student as parameters and store it in the
text file whose name has been passed in the parameter, it will return true if
the data has been successfully saved

bool readAndPrintData(string fileName);
//this function would read data of all students from the file and then print it
on screen, it will return false if the file does not exist
```

Now in the main function, first ask the user for the batch, you will be using the batch name as the file name, e.g. for your batch the file name would be “**batch2022.txt**”. take students' data as input, pass it on to the saveDataToFile function, so it may be saved in the file. Keep taking input of students as long as the user wants. Once done, clear your console using **system("CLS")** and then print data of all students.

## Task 02:

You have been given a names.txt file. You will take a “string input” from the user, now your task is to print all names from the text file and have the substring in it.

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*Best of luck*