******COMSATS University Islamabad (Lahore** **Campus)**

**LabTask#2– Fall2023**

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| Course Title: | Operating Systems | Course Code: | CSC322 | Credit Hours: | 3(2,1) |
| Course Instructor: | Nadeem Ghafoor Chaudhry | Programme Name: | BSE | | |
| **Due Date:** | **Monday, October 16th 2023** | **Maximum Marks:** | | **20** | |
| **Important Instructions / Guidelines:**  You should name your C file as FA21\_BSE\_XYZ.c where XYZ will be your SID number. Your program should compile without any error. | | | | | |

Question No 1. CLO:5,6; Bloom Taxonomy Level: <Applying>

Implement the following command in a C program

cat < input\_file | grep x > output\_file

The names of the input\_file and output\_file will be passed as command line arguments. This can be done in a single line of code by using system system-call but you should not use it instead you are required to use fork, execl, pipe and redirection.

You should name your C file as FA21\_BSE\_XYZ.c where XYZ will be your SID number. Your program should compile without any error.