United International University

School of Science of Engineering

Department of Computer Science and Engineering

Course Code: CSI 310, Course Title: Operating System Concepts Laboratory

Mid Term Exam, Marks – 20, Time: 1 hour and 15 minutes, Section: B

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Shell Commands**   |  |  | | --- | --- | | 1. Currently you are in Desktop directory. You have **two directories** named **dir1 and dir2** in Desktop. Each of dir1 and dir2 contains two files named **file1.txt and file2.txt** respectively. The contents of the files are given below. Write the necessary command that will take contents from file1.txt and file2.txt in the following pattern and save those contents in the **file3.txt** file which is in the directory named **dir3** at home directory. | 2 | | 1. Write necessary command to find all the **.txt files** from **Desktop, Downloads** and **Music** directories. Currently you are in **Downloads** directory | 1 | | 1. Write necessary command to move **file1.txt and file2.txt** files from dir1 and dir2 respectively and place them at **Downloads directory** and you are currently at **Desktop directory**.[**use no-1 scenario**] | 1 | | 1. Write necessary command to show the detail files and folders information of the **Music directory** and the present working directory is **Downloads directory**. | 1 | | 5 |
| **Shell Scripts**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Write a program that will take an input n from user print the following pattern :  If n = 4 , then   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |  | 3 | 3 | 3 | 3 | 3 |  | |  |  | 2 | 2 | 2 |  |  | |  |  |  | 1 |  |  |  |     [\*\* note that , the value of n doesn't exceed 9]  If you want to use echo command without new line then use the flag **–n.**  **For example :**  for (( i=1; i<=2 ; i++ ))  do  echo –n $i  done  output will be 1 2 instead of 1  2 | 5 | | Write a program that will read two integer numbers and perform basic operations like +, -, \*, / and % using **case statement** (this program is a simple calculator program with basic operations). | 5 | | Suppose you are given an array of 10 numbers. Write a program that will find the **maximum number** and **minimum number** along with the **index positions** in the array | 5 | | 15 |