**Operating System**

**Lab Report**

**Lab 02**



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|  |  |
| Class | Operating System (**BCE-5B**) |
| Instructor’s Name | Sir Wasif |

**In Lab Tasks**

**Question 1: Activity 1:**

**In this activity, you are required to perform tasks given below:**

**1. Display your current directory.**

**2. Change to the /etc directory.**

**3. Go to the parent directory of the current directory.**

**4. Go to the root directory.**

**5. List the contents of the root directory.**

**6. List a long listing of the root directory.**

**7. Stay where you are, and list the contents of /etc.**

**8. Stay where you are, and list the contents of /bin and /sbin.**

**9. Stay where you are, and list the contents of ~.**

**10. List all the files (including hidden files) in your home directory.**

**11. List the files in /boot in a human readable format.**

**Solution:  
1)** The Terminal Output is given below,

Text

Description automatically generated

**2)** The Terminal Output is given below,

Text

Description automatically generated

**3)** The Terminal Output is given below,

Text

Description automatically generated

A screenshot of a computer screen

Description automatically generated**4)** The Terminal Output is given below,

Text

Description automatically generated**5)** The Terminal Output is given below,

A screen shot of a computer

Description automatically generated**6)** The Terminal Output is given below,

A screen shot of a computer

Description automatically generated**7)** The Terminal Output is given below,

Text

Description automatically generated**8)** The Terminal Output is given below,

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Description automatically generated

Text

Description automatically generated**9)** The Terminal Output is given below,

Text

Description automatically generated**10)** The Terminal Output is given below,

Text

Description automatically generated**11)** The Terminal Output is given below,

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**Question 2: Activity 2:**

**Perform the following tasks using Linux CLI:**

**1. Create a directory “mydir1” in Desktop Directory. Inside mydir1 create another directory “mydir2”.**

**2. Change your current directory to “mydir2” using absolute path**

**3. Now, change you current directory to Documents using relative path**

**4. Create mydir3 directory in Documents directory and go into it**

**5. Now, change your current directory to mydir2 using relative path**

Solution:

1) The Terminal Output is given below,

Text

Description automatically generated

Text

Description automatically generated

2) The Terminal Output is given below,

**A screenshot of a computer

Description automatically generated**

3) The Terminal Output is given below,

**Graphical user interface, text

Description automatically generated**

4) The Terminal Output is given below,

**Text

Description automatically generated**

4) The Terminal Output is given below,

5) The Terminal Output is given below,

**Text

Description automatically generated**

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**Question 3: Activity 3:**

Considering the directories created in Activity 2, perform the following tasks:

1. Go to mydir3 and create an empty file myfile using cat command

2. Add text the text “Hello World” to myfile

3. Append myfile with text “Hello World again”

4. View the contents of myfile

Solution:

1) The Terminal Output is given below,

A screenshot of a computer

Description automatically generated

2) The Terminal Output is given below,

**Text

Description automatically generated**

3) The Terminal Output is given below,

Text

Description automatically generated

4) The Terminal Output is given below,

4) The Terminal Output is given below,

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Description automatically generated

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**Question 4: Activity 4:**

Considering the above activities, perform the following tasks

1. move myfile to mydir1

2. copy myfile to mydir2

3. copy mydir2 on Desktop

4. delete mydir1 (get confirmation before deleting)

5. Rename myfile to mynewfile

Solution:

1) The Terminal Output is given below,

Text

Description automatically generated

2) The Terminal Output is given below,

**Text

Description automatically generated**

Text

Description automatically generated3) The Terminal Output is given below,

4) The Terminal Output is given below,

**Text

Description automatically generated**

5) The Terminal Output is given below,

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Description automatically generated

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**Question 5: Activity 5:**

This activity is related to I/O redirection

1. Go to Desktop directory

2. Write the long-listing of contents of Desktop on an empty file out-put-file

3. View contents of out-put-file

Solution:

1) The Terminal Output is given below,

Text

Description automatically generated

2) The Terminal Output is given below,

Text

Description automatically generated

3) The Terminal Output is given below,

Text

Description automatically generated

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POST LAB (Home Activities)

Task 1 Home Activity 1:

Considering the lab activities, perform the following tasks

1. Go to Desktop directory

2. write the contents of mynewfile to newfile

3. view the output of both mynewfile and newfile on screen

4. write the combined output of mynewfile and newfile to a third file out-put-file

Solution:

1) The Terminal Output is given below,

Text

Description automatically generated

2) The Terminal Output is given below,

Text

Description automatically generated

3) The Terminal Output is given below,

Text

Description automatically generated

4) The Terminal Output is given below,

Text

Description automatically generated

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Task 2: Home Activity 2:

Long list all files and directories in your system and write out-put on a text-file.

Solution:

The Terminal Output is given below,

Text

Description automatically generated

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