**Operating System**

**Lab Report**

**Lab 03**



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

**In Lab Tasks**

**Question 1: Activity 1:**

**This activity is related to file permission. Perform the following tasks**

**1. Create a new directory named test in root directory as superuser**

**2. Make this directory public for all**

**3. Create a file “testfile.txt” in /test directory**

**4. Change its permissions that no boy can write the file, but the owner can read it.**

**5. Create another user “Usama”**

**6. Run the shell with user Usama**

**7. Try to read the “testfile.txt”**

**8. Logout as Usama**

**9. Change the permission of testfile.txt so that everyone can read, write and execute it**

**10. Run shell as Usama again**

**11. Now, read the 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

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

Text

Description automatically generated

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

Graphical user interface, text

Description automatically generated

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

Graphical user interface, text

Description automatically generated

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

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,

Text

Description automatically generated

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**Question 2: Activity 2:**

Perform the following tasks

1. Set the permission such that a newly created file is readable only to the owner

2. Create a text file “act.txt” in /test directory crated in previous activity

3. Run the shell as user “usama” (created previously)

4. Access the file “act.txt”

5. Logout as usama

6. Now change the ownership of the file from ubuntu to usama

7. Run the shell again as usama

8. Read the file “act.txt” using cat command

9. Logout as usama

10. Now access the act.txt with user ubuntu

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,

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Description automatically generated**

5) The Terminal Output is given below,

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6) The Terminal Output is given below,

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Description automatically generated**

7) The Terminal Output is given below,

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8) The Terminal Output is given below,

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9) The Terminal Output is given below,

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10) The Terminal Output is given below,

**Text

Description automatically generated**

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**Question 3: Activity 3:**

Perform the following tasks

1. search apt repository for the chromium browser

2. install the chromium browser using command line

3. write the command to update and upgrade the repository

4. list the software installed on your machine and write output on a file list.txt

5. read the list.txt file using cat command

Solution:

1) The Terminal Output is given below,

Graphical user interface, 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**

5) The Terminal Output is given below,

Text

Description automatically generated

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