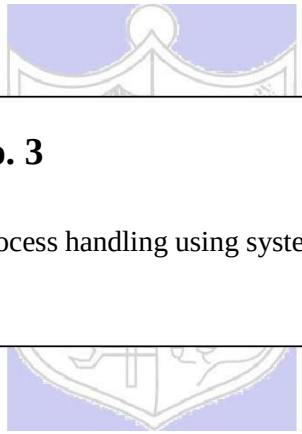


Experiment No. 3

Title: File and Process handling using system calls

Batch: B2 **Roll No: 16010420117** **Experiment No: 3**

Aim: Implementation of basic commands in Linux and write a program to show file and process handling using system call in Linux.

Resources needed: Ubuntu 15.04 GNU.

Theory:
Pre lab/Prior concepts:

Study the commands given.

Activity:

1. Write a program to show file management and process management using system call.

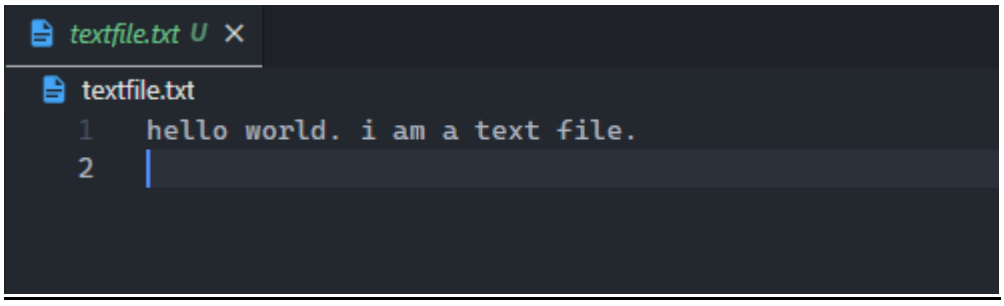
Results: Perform the activity task and attach the snapshots here.

1. Open, read, write and close for file management system call

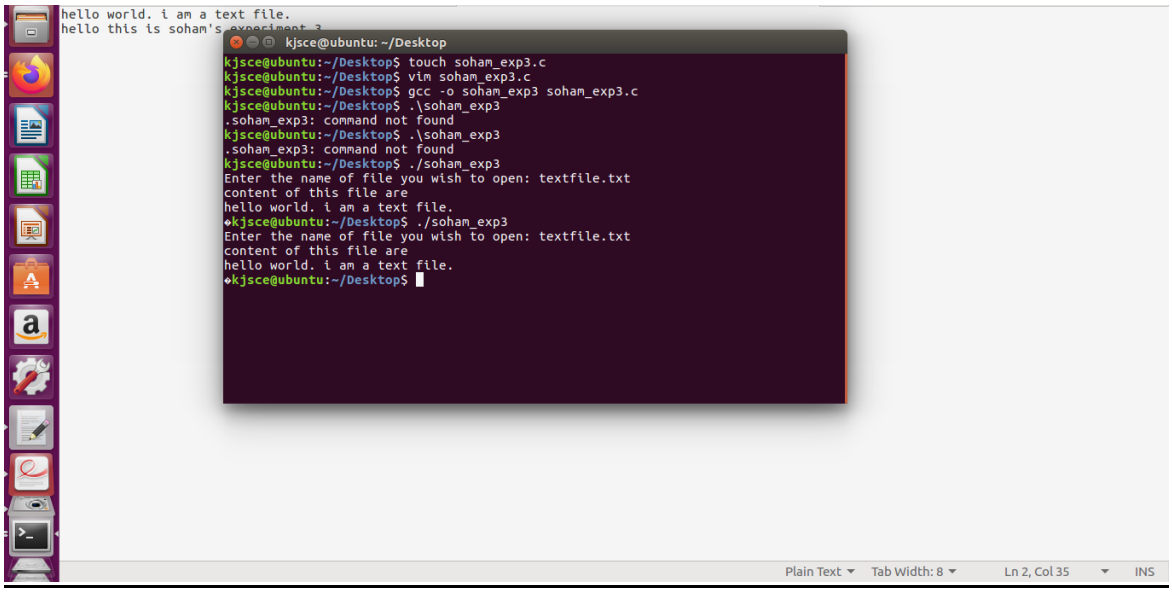
Code

```c
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

int main()
{
    FILE *ptr;
    char a;
    char filename[50];
    printf("Enter the name of file you wish to open: ");
    scanf("%s",filename);
    ptr = fopen(filename, "r");

    if (NULL == ptr)
    {
        printf("file can't be opened \n");
    }

    printf("content of this file are \n");

    do {
        a = fgetc(ptr);
        printf("%c", a);
    } while (a != EOF);
    fclose(ptr);
    return 0;
}
```

Text file data



Output



The assignment submitted should be e- media saved as <Roll No_Batch No_Date>

File must contain on the top:
Name:
Roll No.
Exp No.
Batch:
Date:

Outcomes: CO1: Understand basic structure of modern operating system

---

Conclusion: Understanding the results how system calls are used for file and process handling.

Grade: AA/AB/BB/BC/CC/CD/DD

Signature of faculty in-charge with date

References:

Books/ Journals/ Websites:

1. Richard nd Edition Blum edition, and Christine Wiley, 2012 Bresnahan, "Linux. Command Line & Shell Scripting", II