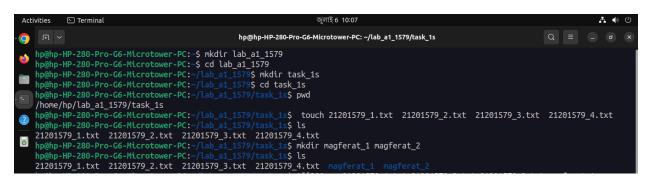
Task - 1 (a)



- mv 21201579_1.txt 21201579_2.txt 21201579_3.txt magferat_1
- Is
- Is magferat_1
- cp magferat_1/21201579_1.txt magferat_1/21201579_2.txt magferat_2
- Is magferat_2
- mkdir magferat_3
- cp -r magferat 1 magferat 3
- cd magferat_3/magferat_1
- -ls -l
- chmod go+rx-w *

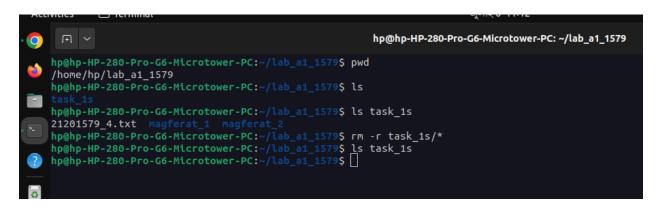
```
জুলাই 6 10:20
Activities 🕒 Terminal
                                                                                                                                                                                          A • (
Q = - 0
                                                         hp@hp-HP-280-Pro-G6-Microtower-PC: ~/lab_a1_1579/task_1s/magferat_3/magferat_1
    hp@hp-HP-280-Pro-G6-Microtower-PC:-/lab_a1_1579/task_1s$ mv 21201579_1.txt 21201579_2.txt 21201579_3.txt magferat_1 hp@hp-HP-280-Pro-G6-Microtower-PC:-/lab_a1_1579/task_1s$ ls magferat_1
     21201579_1.txt 21201579_2.txt 21201579_3.txt
     21201579 4.txt magferat
     hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_1s$ cp magferat_1/21201579_1.txt magferat_1/21201579_2.txt magferat_2 hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_1s$ ls magferat_2
     21201579_1.txt 21201579_2.txt
     hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_1s$ mkdir magferat_3
    hp@hp-HP-280-Pro-G6-Microtower-PC:-/lab_a1_1579/task_1s$ cp -r magferat_1 magferat_3 hp@hp-HP-280-Pro-G6-Microtower-PC:-/lab_a1_1579/task_1s$ cd magferat_3/magferat_1 hp@hp-HP-280-Pro-G6-Microtower-PC:-/lab_a1_1579/task_1s/magferat_3/magferat_1$ ls
     21201579_1.txt 21201579_2.txt 21201579_3.txt
     hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_1s/magferat_3/magferat_1$ ls -l
    rw-rw-r-- 1 hp hp 0 জুহি 6 10:17 21201579_1.txt
-rw-rw-r-- 1 hp hp 0 জুহি 6 10:17 21201579_2.txt
-rw-rw-r-- 1 hp hp 0 জুহি 6 10:17 21201579_3.txt
    hp@hp-HP-280-Pro-G6-Microtower-PC:-/lab_a1_1579/task_1s/magferat_3/magferat_1$ chmod go+rx-w * hp@hp-HP-280-Pro-G6-Microtower-PC:-/lab_a1_1579/task_1s/magferat_3/magferat_1$ ls -l
     total 0
     -rw-r-xr-x 1 hp hp 0 জুলাই
                                                 6 10:17 21201579_1.txt
     -rw-r-xr-x 1 hp hp 0 জুনাই 6 10:17 21201579_2.txt
-rw-r-xr-x 1 hp hp 0 জুনাই 6 10:17 21201579_3.txt
    hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_1s/magferat_3/magferat_1$
```

- cd .. ls -R

- pwd
- cd /
- sudo mv /home/hp/lab_a1_1579/task_1s/magferat_3* root
- sudo su
- cd root
- Is -R
- exit

```
root@hp-HP-280-Pro-G6-Microtower-PC: ~
   hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_1s/magferat_3/magferat_1$ cd ...
   hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_1s/magferat_3$ ls -R
./magferat_1:
   hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_1s/magferat_3$ pwd
   /home/hp/lab_a1_1579/task_1s/magferat_3
   hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_1s/magferat_3$ cd /
   hp@hp-HP-280-Pro-G6-Microtower-PC:/$ ls
  bin cdrom etc lib lib64 lost+found mnt proc run snap sys usr
boot dev home lib32 libx32 media opt root sbin srv tmp var
                                                                          tmp var
   hp@hp-HP-280-Pro-G6-Microtower-PC:/$ ^C
   hp@hp-HP-280-Pro-G6-Microtower-PC:/$ ^C
   hp@hp-HP-280-Pro-G6-Microtower-PC:/$ mv /home/hp/lab_a1_1579/task_1s/magferat_3* root
   mv: cannot stat 'root/magferat_3': Permission denied
   hp@hp-HP-280-Pro-G6-Microtower-PC:/$ sudo mv /home/hp/lab a1 1579/task 1s/magferat 3* root
   [sudo] password for hp:
   hp@hp-HP-280-Pro-G6-Microtower-PC:/$ ls /home/hp/lab_a1_1579/task_1s/magferat_3
   ls: cannot access '/home/hp/lab_a1_1579/task_1s/magferat_3': No such file or directory hp@hp-HP-280-Pro-G6-Microtower-PC:/$ sudo su
   root@hp-HP-280-Pro-G6-Microtower-PC:/# cd root
   root@hp-HP-280-Pro-G6-Microtower-PC:~# ls
   root@hp-HP-280-Pro-G6-Microtower-PC:~# ls magferat 3
   root@hp-HP-280-Pro-G6-Microtower-PC:~# ls -R
   ./magferat_3:
   ./magferat_3/magferat_1:
   21201579_1.txt 21201579_2.txt 21201579_3.txt
   ./snap:
```

- cd /home/hp/lab_a1_1579
- Is task 1s
- rm -r task 1s/*
- Is task_1s



Task - 1 (b)

```
hp@hp-HP-280-Pro-G6-Microtower-PC: ~/lab_a1_1579/task_1b
0
    hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579$ mkdir task_1b
    hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579$ cd task_1b
hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_1b$ touch course.txt
hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_1b$ gedit course.txt
hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_1b$ cat course.txt
    CSE419
    - PROGRAMMING LANGUAGE AND COMPETITIVE PROGRAMMING
    - S : 1
    - FACULTY : KKP
     - CREDIT : 3
CSE425
     - NEURAL NETWORKS
     - FACULTY : MMM
    - CREDIT : 3
    CSE321
    - OPERATING SYSTEM
     - S : 13
    - FACULTY : KBS
     - CREDIT : 3
    EC0102
    - INTRODUCTION TO MACROECONOMICS
     - FACULTY : RUA
    - CREDIT : 3
    TOTAL = 4 COURSE
    TOTAL - CREDIT : 12
    hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_1b$ ls CSE*
    ls: cannot access 'CSE*': No such file or directory
    hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_1b$ grep -c "CSE" course.txt
3
hp@hp-HP-280-Pro-G6-Mtcrotower-PC:~/lab_a1_1579/task_1b$
```

Task - 1 (c)

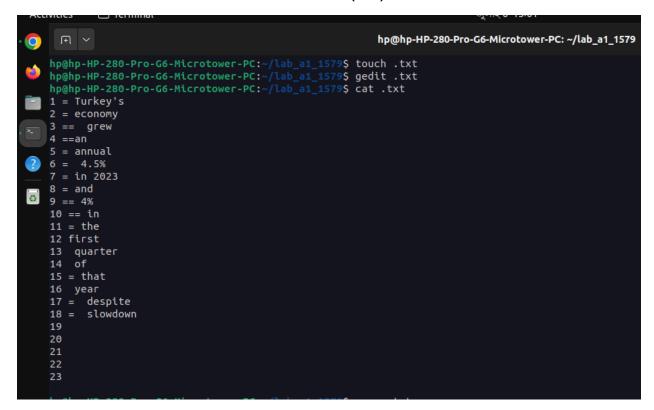
```
hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_1b

hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_1b$ ls -a /root
ls: cannot open directory '/root': Permission denied
hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_1b$ sudo ls -a /root

. . . .bash_history .bashrc .cache .config .lesshst .local magferat 3 .profile snap .sudo_as_admin_successful
hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_1b$ sudo ls -a /root | grep "^\."

bash_history
bashrc
cache
config
lesshst
local
profile
sudo_as_admin_successful
hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_1b$ |
```

Task - 1 (d)





TASK - 2 (a)

```
ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC:~/lab_a1_1579$ cat 2a.c

#include <stdio.h>
#include <stdib.h>

int main() {
    int a, b;
    printf("Enter a, b: ");
    scanf("%d %d", &a, &b);

    if (a > b) {
        printf("%d\n", a - b);
    } else if (a < b) {
            printf("%d\n", a + b);
    } else {
            printf("%d\n", a * b);
    }

ssp.

return 0;
}

ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC:~/lab_a1_1579$ []</pre>
```

```
hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_2$ gedit 2a.c
hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_2$ gcc -o 2a_output 2a.c
hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_2$ ./2a_output
Enter a, b: 6 4

2
hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_2$ gcc -o 2a_output 2a.c
hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_2$ ./2a_output
Enter a, b: 4 6

10
hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_2$ ./2a_output
Enter a, b: 4*6
4
hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_2$ ./2a_output
Enter a, b: 4 4
16
hp@hp-HP-280-Pro-G6-Microtower-PC:~/lab_a1_1579/task_2$ ./2a_output
```

TASK - 2 (B)

```
জুলাই 7 16:04 🗘
               Terminal
                                                                                                                                                                                                                  A ()
                                                                                                                                                                                              Q = -
                                                                         ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC: ~/lab_a1_1579
         ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC:~/lab_a1_1579$ cat 2b.c
#include <stdio.h>
#include <string.h>
        int main() {
   FILE *f1_pointer, *f2_pointer;
   char sentence[200];
   char *result_s[100];
   char *word;
   int i = 0;
               f1_pointer = fopen("2b_input.txt", "r");
f2_pointer = fopen("2b_output.txt", "w");
               fgets(sentence, sizeof(sentence), f1_pointer);
               word = strtok(sentence, " ");
while (word != NULL) {
   result_s[i] = word;
   word = strtok(NULL, " ");
   i++;
 o J
               for (int j = 0; j < i; j++) {
                       fprintf(f2_pointer, "%s ", result_s[j]);
               fclose(f1_pointer);
fclose(f2_pointer);
               return 0:
::: }
         ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC:~/lab_a1_1579$
```

```
ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC:~/lab_a1_1579

ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC:~/lab_a1_1579$ cat 2b_input.txt

I love Python Programming.

ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC:~/lab_a1_1579$ gcc -o 2b_output2.txt 2b.c

ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC:~/lab_a1_1579$ ./2b_output2.txt

ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC:~/lab_a1_1579$ cat 2b_output.txt

I love Python Programming.

ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC:~/lab_a1_1579$
```

```
ties ি Terminal

ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC: ~/lab_a1_1579

ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC: ~/lab_a1_1579$ gedit 2c.c

ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC: ~/lab_a1_1579$ gcc -o 2c_output.txt 2c.c

ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC: ~/lab_a1_1579$ ,/2c_output.txt

Enter the password: adafsf

ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC: ~/lab_a1_1579$ ,/2c_output.txt

Enter the password: qwrdgd

Digit missing, Uppercase character missing, Special character missing, ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC: ~ (ab_a1_1579)

ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC: ~ (collab_a1_1579)

ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC: ~ (collab_a1_1579)

ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC: ~ (collab_a1_1579)

ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC: ~ (collab_a1_1579)

ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC: ~ (collab_a1_1579$) ./2c_output.txt

Enter the password: Br@CUspring

Digit missing, Uppercase character missing, Special character missing, ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC: ~ (lab_a1_1579$) ./2c_output.txt

Enter the password: Br@CU20spring2

Uptrins-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC: ~ (lab_a1_1579$)

Enter the password: Br@CU20spring2

Ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC: ~ (lab_a1_1579$)

Enter the password: Br@CU20spring2

Ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC: ~ (lab_a1_1579$)
```

TASK - 2 (D)

```
ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC:~$ cat 2d.c
#include <stdio.h>
#include <string.h>
int main() {
    char email[100], domain[100];
    char *pointer;
    char old_d[] = "@kaaj.com";
    char new_d[] = "@sheba.xyz";
    printf("Email: ");
    scanf("%s", email);
    pointer = strchr(email, '@');
    strcpy(domain, pointer);
    if (strcmp(domain, old_d) == 0) {
        printf("Email address is outdated \n");
    else if (strcmp(domain, new_d) == 0) {
        printf("Email address is okay \n");
    return 0;
ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC:~$
```

```
ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC:~/lab_a1_1579$ cd .. ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC:~$ ./2d_output.txt Email: fahmid@kaaj.com
Email address is outdated
ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC:~$ ./2d_output.txt Email: zaki@sheba.xyz
Email address is okay
ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC:~$ [
```

Task - 2 (E)

```
ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC:~/lab_a1_1579$ cat 2e.c
#include <stdio.h>
#include <string.h>
#include <ctype.h>
int main() {
    char given[100];
    printf("Enter a string: ");
    scanf("%s", given);
    int len = strlen(given);
    char right_s[len];
    int k = 0;
    for (int j = len - 1; j >= 0; j--) {
        right_s[k] = given[j];
        k++;
    }
    if (strcmp(given, right_s) == 0) {
        printf("palindrome\n");
    else {
        printf("not a palindrome.\n");
    }
    return 0;
ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC:~/lab_a1_1579$
```

```
Activities ্ৰ Terminal জুলাই 7 15:57 ট্ৰ

ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC: ~/lab_a1_1579

ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC: ~/lab_a1_1579$ gcc -o 2e_output.txt 2e.c
ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC: ~/lab_a1_1579$ ./2e_output.txt

Enter a string: AABBABA
not a palindrome.
ub71103-pc22@ub71103pc22-HP-280-Pro-G8-Microtower-PC: ~/lab_a1_1579$
```