

DATE:-26/09/22

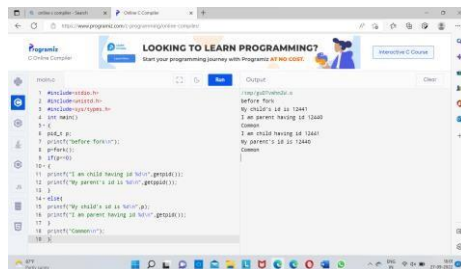
COURSE NAME:-OPERATING SYSTEM WITH DESIGN PRINCIPLES.

COURSE CODE:-CSA0470.

NAME OF THE STUDENT:-CH.INDHU PRIYA.

REG NO:-192111191

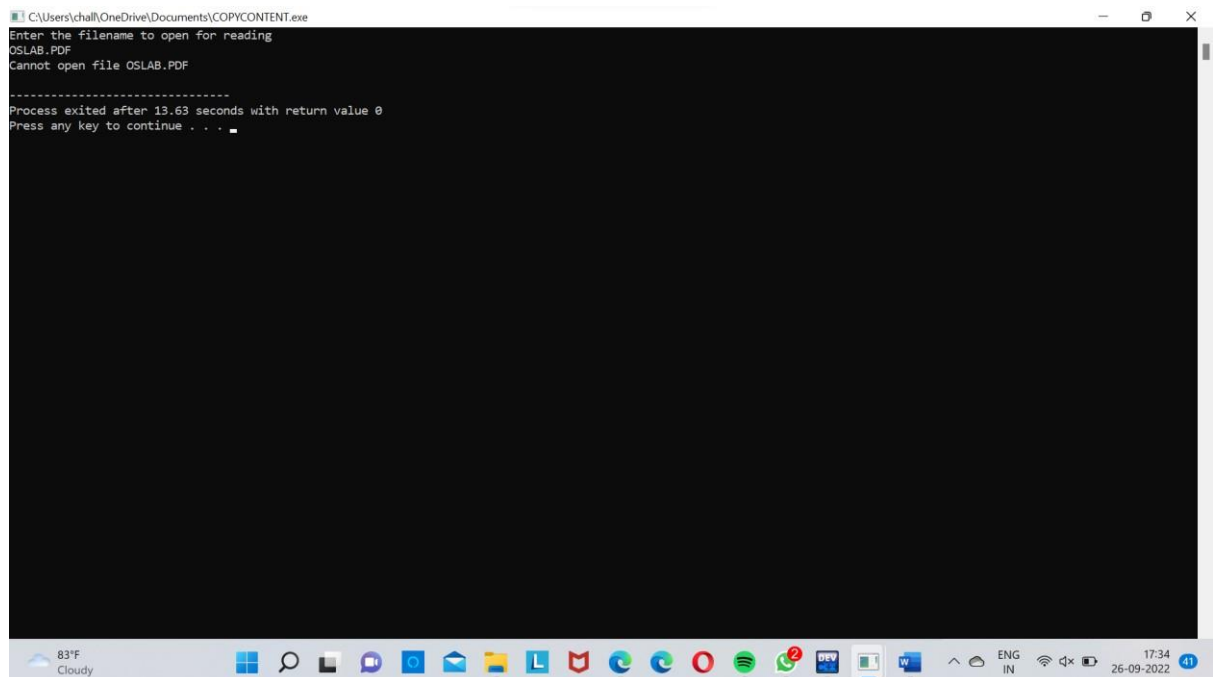
EXPERIMENT :1(SYSTEM CALLS)



```
#include <stdio.h>
#include <unistd.h>
#include <sys/types.h>
#include <sys/wait.h>
#include <stdlib.h>

int main()
{
    printf("Before fork\n");
    pid_t pid = fork();
    if (pid < 0)
    {
        printf("fork error\n");
        return 1;
    }
    if (pid == 0)
    {
        printf("Child process\n");
        return 0;
    }
    printf("Parent process\n");
    wait(&pid);
    printf("Child process exited\n");
    return 0;
}
```

EXPERIMENT:2(COPY CONTENT)



```
C:\Users\chall\OneDrive\Documents\COPYCONTENT.exe
Enter the filename to open for reading
OSLAB.PDF
Cannot open file OSLAB.PDF

-----
Process exited after 13.63 seconds with return value 0
Press any key to continue . . .
```

### EXPERIMENT:-3(FDFS CPU SCHEDULING)

```
C:\Users\chall\OneDrive\Documents\FDFS CPU SCHEDULING.exe

fcfs scheduling...
enter the no of process4

burst time of the process3
burst time of the process2
burst time of the process5
burst time of the process7

total waiting time :18
average waiting time :4.500000
total turn around time :35
average turn around time :8.750000
-----
Process exited after 19.38 seconds with return value 37
Press any key to continue . . .
```

### EXPERIMENT:4(SMALLEST WAITING TIME)

```
C:\Users\chall\OneDrive\Documents\SMALLEST WAITING TIME.exe

Enter number of process: 5
Enter Burst Time:
P1: 4
P2: 7
P3: 12
P4: 35
P5: 49
P BT WT TAT
P1 4 0 4
P2 7 4 11
P3 12 11 23
P4 35 23 58
P5 49 58 107
Average Waiting Time= 19.200001
Average Turnaround Time= 40.599998
-----
Process exited after 17.89 seconds with return value 35
Press any key to continue . . .
```

### EXPERIMENT:-5(HIGHEST PRIORITY EXECUTION)

```
C:\Users\chall\OneDrive\Documents\HIGHEST PRIORITY.exe

P[2]
Burst Time:12
Priority:6

P[3]
Burst Time:25
Priority:9

P[4]
Burst Time:9
Priority:3

P[5]
Burst Time:43
Priority:2

Process Burst Time Waiting Time Turnaround Time
P[1] 6 0 6
P[5] 43 6 49
P[4] 9 49 58
P[2] 12 58 70
P[3] 25 70 95

Average Waiting Time=36
Average Turnaround Time=55

-----
Process exited after 46.75 seconds with return value 0
Press any key to continue . . .
```