

DIR \* dir = opendir(argv[1]);

if (dir == NULL):

{

perror ("Failed to open directory");

return EXIT\_FAILURE;

Struct dirent \* dentry;

while ((dentry = readdir(dir)) != NULL)

{

if (strcmp (dentry->d\_name, ".") != 0 &&

strcmp (dentry->d\_name, "..") != 0)

{

printf ("File: %s\n", dentry->d\_name);

if (dentry-> d\_type == DT\_REG)

{

char file path[1024];

sprintf (file path, "%c%c%c", dentry->d\_name[0],

dentry->d\_name[1], dentry->d\_name[2]);

printf ("Content of %s: %s\n", file path);

read\_file (file path);

}

printf ("\n");

3

if (closedir (dir) == -1)

{

perror ("Failed to close directory");

return EXIT\_FAILURE;

3

return EXIT\_SUCCESS;

3

*Another*

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <direct.h>
```

```
#include <errno.h>
```

```
#include <string.h>
```

```
void read_file (const char *file path)
```

```
{
```

```
FILE *file = fopen (file path, "r");
```

```
if (file == NULL)
```

```
{
```

```
 perror ("Failed to open file ");
```

```
return;
```

```
}
```

```
char line [256];
```

```
while (fgets (line, sizeof (line), file) != NULL)
```

```
{
```

```
printf ("%s", line);
```

~~```
fclose (file);
```~~

```
}
```

```
int main (int argc, char *argv [ ])
```

```
{
```

```
if (argc != 2)
```

```
{
```

```
fprintf (stderr, "Usage: %s < directory name >\n",
```

```
argv [1]);
```

```
return EXIT_FAILURE;
```

```
}
```

Q. Design, develop and implement program to simulate the working of shortest remaining time first scheduling Experiment with different with different length jobs.

Algorithm:- Shortest Remaining Time Implementation

Purpose :- To represent the working of the shortest remaining time algorithm.

Input :- No of processes . Best time of each process and Quantum time.

Output:- Average waiting time and Turnaround time.

printf("Process ID Burst time waiting time turn around time In");

float tot = 0.0;

float wt = 0.0;

for (i=0; i<n; i++)

{

printf("%d\t%t", pid[i]);

printf("%d\t%t", bt[i]);

printf("%d\t%t", bth[i] + wt[i]);

printf("%d\t%t", wt[i]);

tot += wt[i];

wt += Cwt[i] + bth[i];

}

float avg\_wt, avg\_tat;

avg\_wt = tot/n;

avg\_tat = tot/n;

printf("Avg waiting time = %f\n", avg\_wt);

printf("Avg turnaround time = %f", avg\_tat);

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Anitha

Date: 29/oct/2024  
Exp. No. 6

Exp. Title "First come First serve"  
Shortest Remaining Time First (SRTF)

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Program:- Source code:-

```
#include < stdio.h >
#include < conio.h >
#include < iostream.h >
#include < iomanip.h >
int main()
{
    int pid[15];
    int bt[15];
    int n;
    printf("Enter the number of processes");
    scanf("%d", &n);
    printf("Enter process id of all the processes");
    for (int i=0; i<n; i++)
    {
        scanf("%d", &pid[i]);
    }
    printf("Enter burst time of the processes");
    for (int i=0; i<n; i++)
    {
        scanf("%d", &bt[i]);
    }
    int wt[n];
    wt[0] = 0;
    for (i=1; i<n; i++)
    {
        wt[i] = bt[i-1] + wt[i-1];
    }
}
```