

//fcfs

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

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

```
typedef struct{
```

```
    int pid,bt,wt,tt; //struct array
```

```
}sp;
```

```
int main(){
```

```
    int n,i,towt=0,tott=0,tbm=0;
```

```
    sp *p; //dynamic array
```

```
    printf("FCFS scheduling..\n");
```

```
    printf("enter the no. of processes:");
```

```
    scanf("%d",&n);
```

```
    p=(sp *)malloc(n * sizeof(sp)); //dynamic memory allocation for p
```

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

```
        p[i].pid=i+1;
```

```
        printf("\nenter the burst time for process id %d:",p[i].pid);
```

```
        scanf("%d",&p[i].bt);
```

```
    }
```

```
    //calculation
```

```
    printf("\nprocess scheduling....\n");
```

```
    printf("process\tburst\twaiting\tturnaround\n");
```

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

```
        tbm+=p[i].bt;
```

```
        p[i].tt=tbm;
```

```
        p[i].wt=tbm-p[i].bt;
```

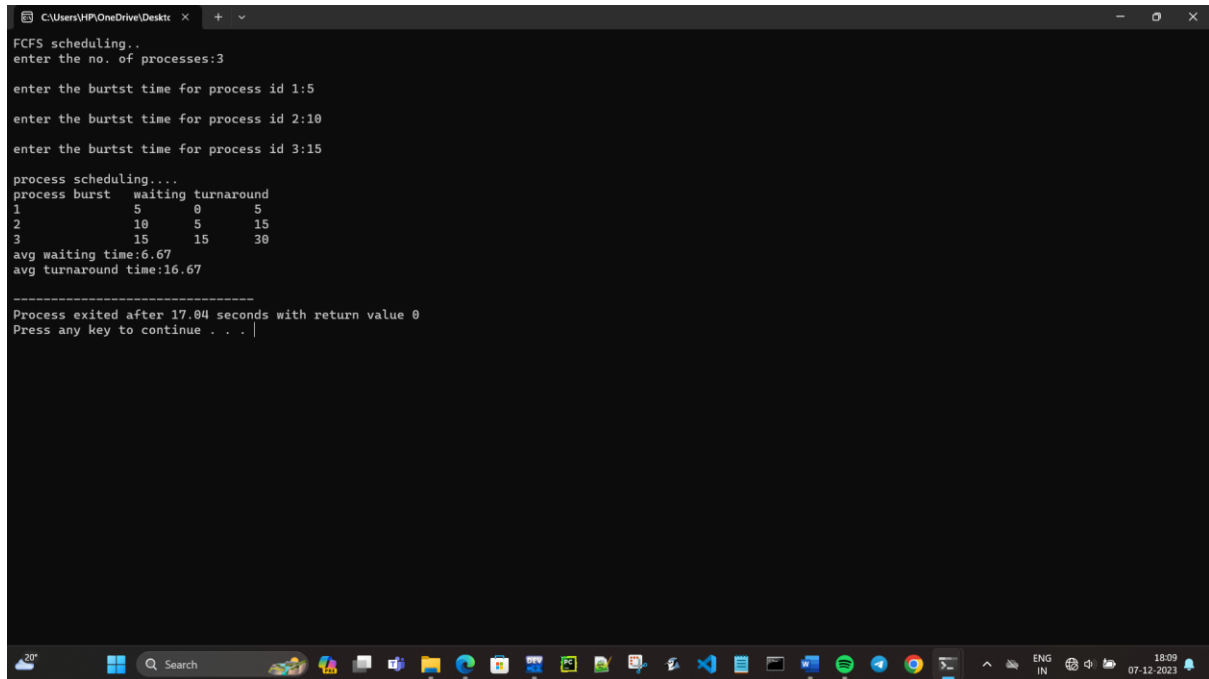
```
        towt+=p[i].wt;
```

```
        tott+=p[i].tt;
```

```
        printf("%d\t%d\t%d\t%d\n",p[i].pid,p[i].bt,p[i].wt,p[i].tt);
```

```
    }
```

```
printf("avg waiting time:%.2f\n", (float)towt/n);  
printf("avg turnaround time:%.2f\n", (float)tott/n);  
free(p);  
return 0;  
}
```



```
C:\Users\HP\OneDrive\Desktop  
FCFS scheduling..  
enter the no. of processes:3  
enter the burst time for process id 1:5  
enter the burst time for process id 2:10  
enter the burst time for process id 3:15  
process scheduling...  
process burst    waiting turnaround  
1                5        0        5  
2                10       5        15  
3                15       15       30  
avg waiting time:6.67  
avg turnaround time:16.67  
-----  
Process exited after 17.04 seconds with return value 0  
Press any key to continue . . . |
```