

c) average waiting time =  $\frac{\text{Total waiting time}}{\text{Number of process}}$

d) average Turnaround time =  $\frac{\text{Total Turnaround time}}{\text{Number of process}}$  Print the results in another.

~~Step 10: Stop~~

Source code:-

#include <stdio.h>

main()

{  
int p[20], bt[20], pri[20], wt[20], tat[20];  
i, k, n, temp; float wavg, tavg;

clrscr();

```
printf("Enter the number of processes");
```

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

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

```
{  
    p[i] = i;
```

```
printf("Enter the Burst Time & priority of process %d",  
i);
```

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

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

```
for (k = i + 1; k < n; k++)
```

```
for (k = i if (pri[i] > pri[k])
```

```
{
```

```
    temp = p[k];
```

```
    p[i] = p[k];
```

```
    p[k] = temp;
```

```
    temp = pri[i];
```

```
    pri[i] = pri[k];
```

```
    pri[k] = temp;
```

```
}
```



```

wtavg = wt[0] = 0; latavg = lat[0] - bt[0];
for ( i = 1; i < n; i++)
{
    wt[i] = wt[i-1] + bt[i-1];
    lat[i] = lat[i-1] + bt[i];
    wtavg = wtavg + wt[i];
    latavg = latavg + lat[i];
}

```

```

printf( "In process |t|t priority |t| Burst  
Time |t| waiting Time |t| Turn around  
time ");

```

```

for ( i = 0; i < n; i++)
printf( " |n %d |t|t %d |t|t %d |t|t %d |t|t  
%d", p[i], pri[i], bt[i], wt[i],  
lat[i] );

```

```

printf( "Average Turnaround Time is %f",  
latavg / n );

```

Chart  
6/10

19/7/23

getch();

Input  
Enter number of process - 5  
Enter burst time & priority of process 0 - 10  
Enter burst time & priority of process 1 - 1  
Enter burst time & priority of process 2 - 2  
Enter burst time & priority of process 3 - 1  
Enter burst time & priority of process 4 - 5  
Waiting Time      Turn around Time

process	burst time	priority
1	1	5
4	2	10
0	3	2
2	4	1
3	5	

Waiting Time	Turn around Time
0	6
6	16
16	18
8	19



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main.c

input

```
Enter the Burst Time & Priority of Process 2 --- 3
4
Enter the Burst Time & Priority of Process 3 --- 5
6
Enter the Burst Time & Priority of Process 4 --- 7
11
Enter the Burst Time & Priority of Process 5 --- 3
4
Enter the Burst Time & Priority of Process 6 --- 7
7
Enter the Burst Time & Priority of Process 7 --- 7
7
Enter the Burst Time & Priority of Process 8 --- 8
8
Enter the Burst Time & Priority of Process 9 --- 8
7
```

PROCESS	PRIORITY	BURST TIME	WAITING TIME	TURNAROUND TIME
1	2	9	0	9
2	4	3	9	12
5	4	3	12	15
3	6	5	15	20
6	7	7	20	27
7	7	7	27	34
9	7	8	34	42
8	8	8	42	50
0	8	9	50	59
4	11	7	59	66

Average Waiting Time is --- 26.799999

Average Turnaround Time is --- 33.400002

...Program finished with exit code 0

Press ENTER to exit console.

MacBook Pro