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Course - BSc IT
Semester - 2

~~Subject - Operating System~~
Subject - operating system

Ans-2

```
#include <stdio.h>
int main()
{
int bt[20], p[20], wt[20], tat[20], i, j, n, total=0, p
os, temp;
float avg_wt, avg_tat;
printf("Enter no of process: ");
Scanf("%d", &n);
printf("\n Enter Burst time:\n");
for (i=0; i<n; i++)
{
printf("p%d: ", j+1);
Scanf ("%d", &bt[i]);
p[i]=j+1;
}
for (i=0; i<n; j++)
{
pos=i;
for(j=i+1; j<n; j++)
{
if (bt(j)<bt[pos])
pos=j;
}
```

DATE - 22/06/21

SIGN- Hakh

```
temp = bt[i];
bt[i] = bt[pos];
bt[pos] = temp;
temp = p[i];
p[i] = p[pos];
p[pos] = temp;
}
wt[0] = 0;
for (i=1; i<n; i++)
{
wt[i] = 0;
for (j=0; j<i; j++)
wt[i] += bt[j];
total += wt[i];
}
avg_wt = (float) total/n;
total = 0;
printf("\n process \t Burst Time \t waiting Time \t Turnaround Time");
for (i=0; i<n; i++)
{
tat[i] = bt[i] + wt[i];
total += tat[i];
printf("\n p%d \t\t %d \t\t %d \t\t %d", p[i], bt[i], wt[i], tat[i]);
}
avg_tat = (float) total/n;
printf("\n\n Average waiting Time = %f", avg_wt);
printf("\n Average Turnaround Time = %f\n", avg_tat);
```

Scanned by TapScanner

Output

Enter no of process:
Enter Burst time:

P1 : P2 : P3 : P4

process	Burst Time	waiting time	Tuelaround Time
P3	1	0	1
P2	2	1	3
P4	4	3	7
P1	10	7	17

Average Waiting Time = 2.750000
Average Tuelaround Time = 7.000000