OPERATING SYSTEM - CS23431

EXP 6(A)

FIRST COME FIRST SERVE

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PROGRAM:

```
#include <stdio.h>
int main() {
int n, i; printf("Enter number of processes: "); scanf("%d", &n);
int bt[n], wt[n], tat[n];
printf("\nEnter burst time for each process:\n");
for (i = 0; i < n; i++) {
  printf("P[%d]: ", i + 1);
  scanf("%d", &bt[i]);
}
wt[0] = 0;
for (i = 1; i < n; i++)
  wt[i] = wt[i-1] + bt[i-1];
for (i = 0; i < n; i++) {
  tat[i] = bt[i] + wt[i];
}
int total wt = 0, total tat = 0;
for (i = 0; i < n; i++)
  total wt += wt[i];
  total tat += tat[i];
}
printf("\nProcess\tBurst Time\tWaiting Time\tTurnaround Time\n");
for (i = 0; i < n; i++)
  printf("P[%d]\t%5d\t\t%5d\t\t%5d\n",
```

```
i+1,\,bt[i],\,wt[i],\,tat[i]); printf("\nTotal\ waiting\ time = \%d\n",\,total\_wt); printf("Total\ turnaround\ time = \%d\n",\,total\_tat); printf("Average\ waiting\ time = \%.2f\n",\,(float)total\_wt\/n); printf("Average\ turnaround\ time = \%.2f\n",\,(float)total\_tat\/n); return\ 0;
```

OUTPUT:

```
[student@localhost ~]$ vi fcfs164.c
[student@localhost ~]$ gcc fcfs164.c
[student@localhost ~]$ ./a.out
Enter number of process: 3

Enter burst time for each process: 24
3
3
Process Burst time Waiting time Turn Around Time
0 24 0 24
1 3 24 27
2 3 27 30

Total waiting time is: 51
Total turn around time is: 81
Average waiting time is: 17
Average turn around time is: 27
[student@localhost ~]$ ■
```