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 ~]$ ■
```