OPERATING SYSTEM - CS23431

EX 6(A)

FIRST COME FIRST SERVE

NAME: MOUNAMITHRA   **ROLL NO: 230701197**

PROGRAM:

```c
#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: