**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:**

