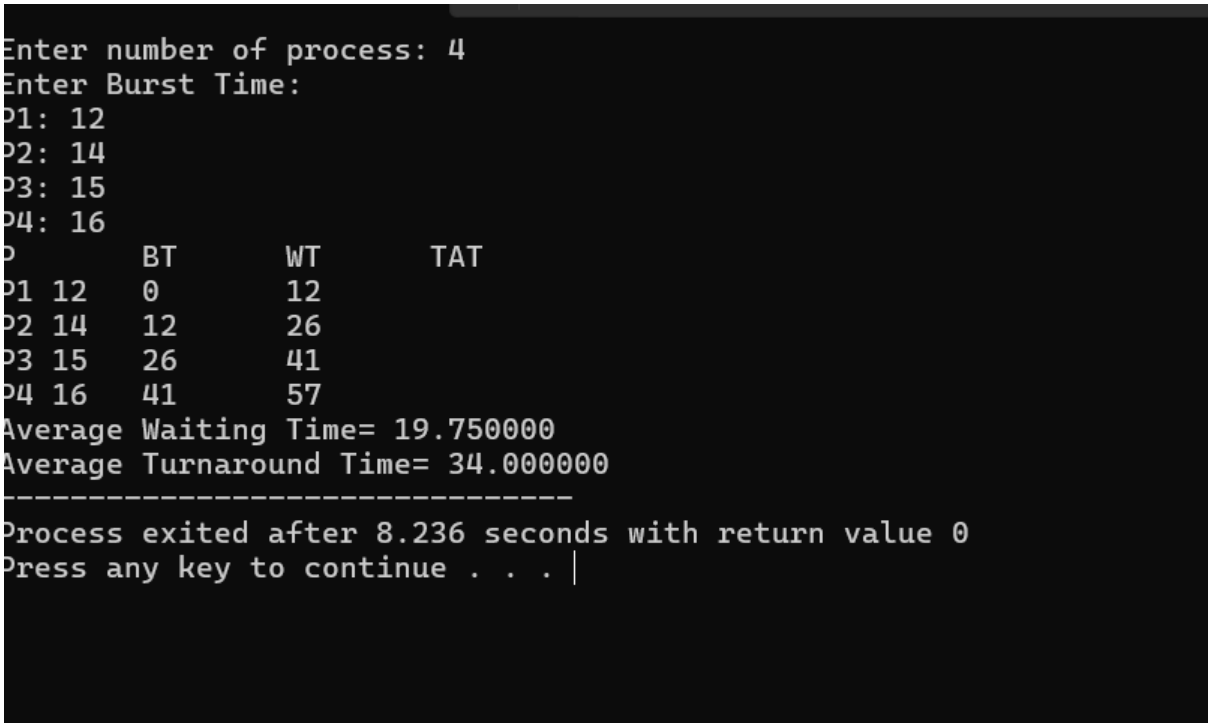
PROGRAM -3

```
#include <stdio.h>
int main()
{
 int A[100][4];
int i, j, n, total = 0, index, temp;
 float avg_wt, avg_tat;
 printf("Enter number of process: ");
  scanf("%d", &n);
printf("Enter Burst Time:\n");
 for (i = 0; i < n; i++) {
 printf("P%d: ", i + 1);
  scanf("%d", &A[i][1]);
   A[i][0] = i + 1;
}
for (i = 0; i < n; i++) {
 index = i;
for (j = i + 1; j < n; j++)
if (A[j][1] < A[index][1]) index = j;
temp = A[i][1]; A[i][1] = A[index][1];
A[index][1] = temp;
temp = A[i][0]; A[i][0] = A[index][0];
 A[index][0] = temp;
  }
  A[0][2] = 0;
   for (i = 1; i < n; i++) {
    A[i][2] = 0;
    for (j = 0; j < i; j++)
A[i][2] += A[j][1];
 total += A[i][2];
} avg_wt = (float)total / n;
 total = 0;
    printf("P   BT  WT  TAT\n");

 for (i = 0; i < n; i++) {
A[i][3] = A[i][1] + A[i][2];
 total += A[i][3];
    printf("P%d %d  %d  %d\n", A[i][0],A[i][1], A[i][2], A[i][3]); }
avg_tat = (float)total / n;
printf("Average Waiting Time= %f", avg_wt);
printf("\nAverage Turnaround Time= %f", avg_tat);
}
```

OUTPUT


Enter number of process: 4
Enter Burst Time:
P1: 12
P2: 14
P3: 15
P4: 16
P BT WT TAT
P1 12 0 12
P2 14 12 26
P3 15 26 41
P4 16 41 57
Average Waiting Time= 19.750000
Average Turnaround Time= 34.000000
Process exited after 8.236 seconds with return value 0
Press any key to continue . . .