1905387
Chaudhary Hamdan
CC Lab sessional

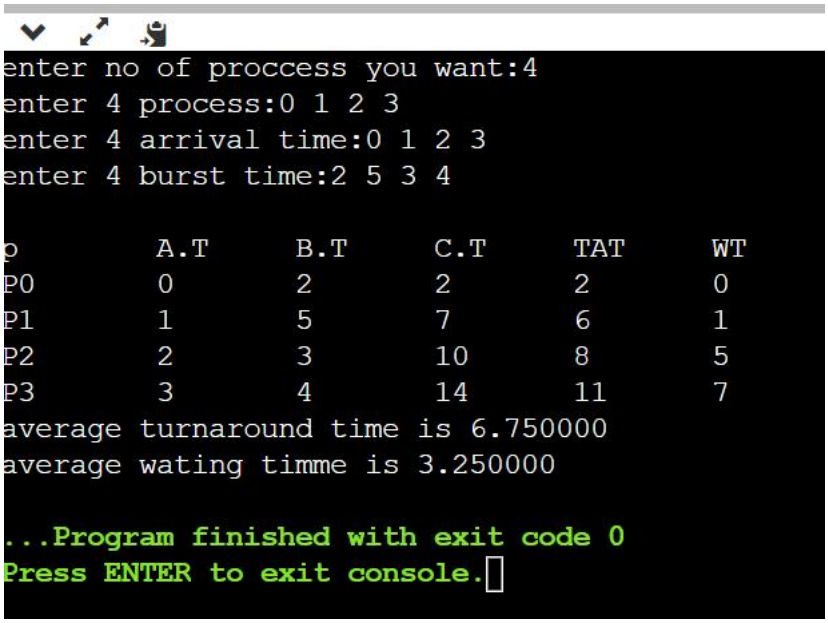
Answer:
FCFS

```
// Author: Chaudhary Hamdan, 1905387

#include<stdio.h>
int main()
{
   int  p[10],at[10],bt[10],ct[10],tat[10],wt[10],i,j,temp=0,n;
   float awt=0,atat=0;
   printf("enter no of proccess you want:");
   scanf("%d",&n);
   printf("enter %d process:",n);
   for(i=0;i<n;i++)
   {
   scanf("%d",&p[i]);
   }
   printf("enter %d arrival time:",n);
   for(i=0;i<n;i++)
   {
   scanf("%d",&at[i]);
   }
   printf("enter %d burst time:",n);
   for(i=0;i<n;i++)
```

```
{
scanf("%d",&bt[i]);
}
// sorting at,bt, and process according to at
for(i=0;i<n;i++)
{
 for(j=0;j<(n-i);j++)
{
  if(at[j]>at[j+1])
 {
    temp=p[j+1];
    p[j+1]=p[j];
    p[j]=temp;
    temp=at[j+1];
    at[j+1]=at[j];
    at[j]=temp;
    temp=bt[j+1];
    bt[j+1]=bt[j];
    bt[j]=temp;
  }
 }
}
/* calculating 1st ct */
ct[0]=at[0]+bt[0];
/* calculating 2 to n ct */
for(i=1;i<n;i++)
{
  //when proess is ideal in between i and i+1
  temp=0;
 if(ct[i-1]<at[i])
 {
    temp=at[i]-ct[i-1];
 }
 ct[i]=ct[i-1]+bt[i]+temp;
```

```
    }
    /* calculating tat and wt */
    printf("\np\t A.T\t B.T\t C.T\t TAT\t WT");
    for(i=0;i<n;i++)
    {
    tat[i]=ct[i]-at[i];
    wt[i]=tat[i]-bt[i];
    atat+=tat[i];
    awt+=wt[i];
    }
    atat=atat/n;
    awt=awt/n;
    for(i=0;i<n;i++)
    {
      printf("\nP%d\t       %d\t       %d\t       %d       \t       %d
\t %d",p[i],at[i],bt[i],ct[i],tat[i],wt[i]);
    }
    printf("\naverage turnaround time is %f",atat);

    printf("\naverage wating timme is %f",awt);
    return 0;
}
```

Output:


enter no of proccess you want:4
enter 4 process:0 1 2 3
enter 4 arrival time:0 1 2 3
enter 4 burst time:2 5 3 4
o A.T B.T C.T TAT WT
P0 0 2 2 2 0
P1 1 5 7 6 1
P2 2 3 10 8 5
P3 3 4 14 11 7
average turnaround time is 6.750000
average wating timme is 3.250000
...Program finished with exit code 0
Press ENTER to exit console.