OS Lab 4 Abubakar Jamil 10662

Task 1:

```
П
                                                                                                                                                                                            ■ D:\| Iniversity\OS | ah\| ah Task 4\| ahTask4.exe
                                                                                                                                                                                            nter the number of processes --
int main() {
    printf("Abubakar 10662");
    int bt[20], wt[20], tat[20], i, n;
    float wtawg, stawg;
    printf("Nenter the number of processes -- ");
    scanf("%d", %n);
    for(1=0;1<0;1++){
        printf("Nenter Burst Time for Process %d scanf("%d", %bt[i]);
    }
}</pre>
                                                                                                                                                                                            nter Burst Time for Process 0 -- 12
                                                                                                                                                                                            nter Burst Time for Process 1 -- 2
                                                                                                                                                                                            Enter Burst Time for Process 2 -- 3
PROCESS BURST TIME
                                                                                                                                                                                                                                                                                                 WAITING TIME
                                                                                                                                                                                                                                                                                                                                         TURNAROUND TIME
                                                                                                                                                                                         P0 12
Average Waiting Time -- 8.666667
Average Turnaround Time -- 14.333333
P1 2 Average Waiting Time -- 8.666667
Average Turnaround Time -- 14.333333
P2 3
Average Waiting Time -- 8.666667
Average Turnaround Time -- 14.333333
                  }
wt[0] = wtavg = 0;
tat[0] = tatavg = bt[0];
for(i=1;i<n;i++) {
                          wt[i] = wt[i-1] +bt[i-1];
tat[i] = tat[i-1] +bt[i];
wtavg = wtavg + wt[i];
tatavg = tatavg + tat[i];
                                                                                                                                                                                          Process exited after 4.259 seconds with return value 0
Press any key to continue . . .
                for(i=0;i<n;i++)
                printf("\n\t PMd \t\t %d \t\t %d \t\t %d", i, bt[i], wt[i], tat[i]);
printf("\nAverage Naiting Time -- %f", wtavg/n);
printf("\nAverage Turnaround Time -- %f", tatavg/n);
                   return 0;
```

Task 2:

Task 3:

```
■ D:\University\OS Lab\Lab Task 4\LabTask4.exe
                                                                                                                                                  Abubakar 10662
Enter total number of processes:3
int main()
{
    printf("Abubakar 10562\n");
    int n,bt[20],wt[20],tat[20],avwt=0,avtat=0,i,j;
    printf("Enter total number of processes:");
    scanf("%o",An);
    printf("\nEnter Process Burst Time\n");
    for(i=0;i<n;i++)
    {
        printf("Pf%dl:".i+1);
    }
}</pre>
                                                                                                                                                  Enter Process Burst Time
                                                                                                                                                  P[1]:2
P[2]:3
P[3]:5
                                                                                                                                               Process
P[1]
P[2]
P[3]
                                                                                                                                                                                     Burst Time
                     printf("P[%d]:",i+1);
scanf("%d",&bt[i]);
              wt[0]=0;
for(i=1;i<n;i++)
                                                                                                                                                  Average Waiting Time:2
Average Turnaround Time:5
φ.
                     wt[i]=0;
for(j=0;j<i;j++)
wt[i]+=bt[j];
                                                                                                                                                  Process exited after 12.29 seconds with return value 0
Press any key to continue . . .
              }
printf("\nProcess\t\tBurst Time\tWaiting Time\tTurnaround Time");
for(i=0;i<n;i++)</pre>
tat[i]=bt[i]+wt[i];
avwt+=wt[i];
avtat+=tat[i];
printf('\nP[%d]\t\t%d\t\t%d\t\t%d\t\t%d",i+1,bt[i],wt[i],tat[i]);
              }
avwt/=i;
avtat/=i;
printf(`\n\nAverage Waiting Time:%d",avwt);
printf("\nAverage Turnaround Time:%d",avtat);
return 0;
```

Task 4:

b) 2