EXPERIMENT 7

#include<stdio.h>

int main()

{

int time, burst\_time[10], at[10], sum\_burst\_time = 0, smallest, n, i,sumt = 0, sumw = 0;

printf("enter the number of processes : ");

scanf("%d", & n);

for (i = 0; i < n; i++)

{

printf("the arrival time for process P %d : ", i + 1);

scanf("%d", & at[i]);

printf("the burst time for process P %d : ", i + 1);

scanf("%d", & burst\_time[i]);

sum\_burst\_time += burst\_time[i];

}

burst\_time[9] = 9999;

for (time = 0; time < sum\_burst\_time;)

{

smallest = 9;

for (i = 0; i < n; i++)

{

if (at[i] <= time && burst\_time[i] > 0 && burst\_time[i] < burst\_time[smallest])

smallest = i;

}

printf("P[%d]\t|\t%d\t|\t%d\n", smallest + 1, time + burst\_time[smallest] - at[smallest], time - at[smallest]);

sumt += time + burst\_time[smallest] - at[smallest];

sumw += time - at[smallest];

time += burst\_time[smallest];

burst\_time[smallest] = 0;

}

printf("\n\n average waiting time = %f", sumw \* 1.0 / n);

printf("\n\n average turnaround time = %f", sumt \* 1.0 / n);

return 0;

}