Fx. No.: 6b) Date: 27. 2 25

SHORTEST JOB FIRST

Aim:

To implement the Shortest Job First (SJF) scheduling technique

Algorithm:

1. Declare the structure and its elements.

2. Get number of processes as input from the user.

3. Read the process name, arrival time and burst time

4. Initialize waiting time, turnaround time & flag of read processes to zero. 5. Sort based on burst time of all processes in ascending order 6. Calculate the waiting time and turnaround time for each process. 7. Calculate the average waiting time and average turnaround time. 8. Display the results.

Program Code:

include & statio his 3 Chrism thi intro frients ("Exter No. of Procurer:"); reconf. C. 1. 9 ' P. M. int PEW, CHEWI, WIEWI, tat EWI. int total_ust =0, total_tot =0; forint C'Enter bout time for the rown pourse! for Cint i=0; inv; itt) & round C"1.2" & LITE for Cint 1=0,38 km, 1+1) & for Cint j= 1+1; jun; (++

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MEJ=MEJ bt I/J = temps temp = P[i] DECT = DEST. PEJ - benfi O= CO] tu Bor Cint i =1: Law; it D& .L-i] tax + [-i] the [i-]. bord but i=0; inw; i+D& total_wt = total_wt + wt[i] total_tot = total_tat + tat [i] Brints Ca Process It Burt time It Waite time It TAT Wil forcint i=0; icw; itt) & fourth Card 1 + 1 & 1 + 1. d. 1 + 1. d. 1 PEIJ, LET, LOTI float ang wit, ang tat; myter lotol = ten_pus and fat - total - fat/y fruits And waiting time

at: 1.18" and

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Burt time

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Process	Burt fine	Charles and	trom orang
	3	0	3
0	6	3	q
	7	9	16
2		16	24
3	8	10	

Sample Output:

Enter the number of process:

Enter the burst time of the processes:

8495

Process	Burst Time	Waiting Time	Turn Around Time
2 4	4 5	0 4	4 9
1 3	9	9	17 26

Average waiting time is: 7.5 Average Turn Around Time is: 13.0

Result:

Your the Mostert Jos First algorithm ir executed