Et. No.: 6d) Date

ROUND ROBIN SCHEDULING

Aim

To implement the Round Robin (RR) scheduling technique

Algorithm:

- 1. Declare the structure and its elements.
- 2. Get number of processes and Time quantum as input from the user.
- 3. Read the process name, arrival time and burst time
- 4. Create an array rem_bt[] to keep track of remaining burst time of processes which is initially copy of bt[] (burst times array)
- Create another array wt[] to store waiting times of processes. Initialize this array as 0. 6. Initialize time: t=0
- 7. Keep traversing the all processes while all processes are not done. Do following for i'th process if it is not done yet.
- a- If rem_bt[i] > quantum
- (i) t = t + quantum
- (ii) bt_rem[i] -= quantum;
- b- Else // Last cycle for this process
- $(i) t = t + bt_rem[i];$
- (ii) wt[i] = t bt[i]
- (iii) bt_rem[i] = 0; // This process is over
- 8. Calculate the waiting time and turnaround time for each process.
- 9. Calculate the average waiting time and average turnaround time.
- 10. Display the results.

Program Code:

< m. aibth Labulari# void DEC int lt[], int ot[], intry intal;

int of Em, totem, with in; int numbting; int to_tat=0, boat_ut=g for Cint i=0; inw, i+) now-theid=bteid; int t=0; int prelit 44 m while Chrilit >0) & cut done-trian-round = 9

forcint i=0; inw; in) if Councit [i] so se at [i] done-thir-count=1; if Crem-liter Jai now-littiz- =q elva s t+=nem let [w] Ctriz; nem-litis-o for left --Change - wint - enab ! I di t'++; berCint i=0; inn; it) S tatii = ct [i] - at [i]; with - Ciltad = Ciltan tot-tot + = tab[i] tot_wt+=wt[i] frints Ca/m Process / + BT / + B HO CULLM ALLAL AL for Cint i=0; km; it)

faintfilt, http://attij, cttij, tot frints (" (float) tot bat In, (float) tot w); (who main () int way recomp C". 1 9" 8 M); int HEW, ONEWY; bor Cint i=0; inw; LH) barcist i= given; itt reamperison, or attidi reconf(").d", & oD; ; (Cow, to, t) me comender

[i], utry

and the descript property of account

Output

Total no ob from : 3

Details of forecer: 1

O served tome: O

Brout Time: 4

Enter Details of brocess: 2

1 course lavina

Bunt Time: 7

Debailer & Process:3

Arrival Time: 2

Burt Pine: 5

Quantom: 2

ProcurID	BTCmis	GMOT AT	WTCMi)
1	4	8	4
3	5	12	8
)	7	12	8

Average Moiting time: 6.66 mm.
Average Turnowand time: 12.00mm

Sample Output:

Result:

Thus the given code for nound notion in like cuted rescuentfully.