Ex No.: 6d) Date 2 8 2 25

ROUND ROBIN SCHEDULING

Aim:

To implement the Round Robin (RR) scheduling technique

Algorithm:

1. Declare the structure and its elements.

4. Create an array rem_bt[] to keep track of remaining burst time of processes which is initially 5. Create.

5. Create another array wt[] to store waiting times of processes. Initialize this array as 0. 6.

Initialize time: 1 = 0

 Keep traversing the all processes while all processes are not done. Do following for i'th
process if it is not done. 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.

Calculate the average waiting time and average turnaround time.

10. Display the results.

Program Code:

n= vnt (input ("Enter number of process",) process = [] for i in range (0, n): process append (i+1)

bt=CJ

for i in range (0,1);

burst time = int (input ("Enter the burst of process {i+13))

bt append (burst-time)

```
to = int (input ("Ender time quantum"))
wt = [07*
  wt = [o] * n
  tat = CoJ+n
  Rum_bt = bt. (copy ()
   tume = 0
   while (1)
        complete = true
        for i in range (n):
                 4 rembt [i] >0:
                   complete = false
                        sembt (i ]>tq:
                         turne += tq
                         Rem-bt[i] == tq
                      turne += lem-bt[i]
                   else:
                       wt [i] = time_bt [i]
                      Rem-bt [i] = 0
            if complete:
     for i in range (oin):
           tat [i] = bt [i]+wt[i]
           total-wt=0
           total . tat = 0
          for i in lange (0, n):
                  total-wt = total-wt + wt[i]
                   total-tat = total-tat + tat[i]
          print (" Process Burstime waity Time
                       Turn Alound Turn (1)
         for i in range (a, n):

printlititit bt (i)!" 14" wti
            Print ("Aurage war for = (tatot fat /n))
```

Sample Output:

```
Inter Total Temper or Processes 4

Ster Details of Process[1]

Service Details of Process[2]

Service Details of Process[2]

Service Details of Process[4]

Service Details of Process[4]

Service Details of Process[4]

Service Details of Process[4]

Service Time 3

Service Time 6

Service Time 6

Service Time 7

Servi
```

process		waching Time	Turn Around
	4	4	8
2	5	7	12
3	3	8	11

Awage Two Around Time = 10.33
Awarage waiting Time = 6.33

Result:

The councilling, algorithm for Round Robin hashen executed sucesfully and output has been verified.