```
write a program in a to implement
  1) First come First serve scaeduling
     #include (statio. A >
         unt n, bt [20], wt [20], tat [20], arent =0, autat = 0, i, j;
       int main () {
         prints ("Enter total number of processes:");
         scang ( " ", d ", dn);
        printf ("In Enter Process Burst time");
        gor (i=o; icn; i++)
         prints ("P[1,d]:" i+1);
        scang [" 7. d" & At [1]);
       wt[0] = 0:
      for (i=1; i(n; i++)
        wt [i] = 0:
       for (j=0; j<i; j+t)
           wttil += bttil.
     prints ("In horesoft burst Timet waiting Time t Turn around
                                                      Time");
  you (1=0; 1< n; i++)
   tat [i] = bt [i] + wt [i];
  anut t = w+ [i];
 autat += tat [i];
prints ("n P [1/d] ++ 1/d ++ 1/d ++ 1/d" i+1, b+[i], w+[i],
                                                tat[i].
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			Page M	2:
1	arest	l= i ·		
4	a. Hat I	E ! .	Towns of the same	
-	1 14111	I A a leasting	Time: ". a", anut);
-	baint!!!	n Average Turnarae	and Time: 1. d",	wtat);
	vieturn (
	2		the state of the s	-
)			
	Output :-	Enter total numbe	of pocesses: 3	and the same of th
		Enter Process Burst		
		P[17:33		
		P[2]: 2	The second second second	
		P[3]: 1		
			Charles Land	
	Process	Burst Time	walting Time	Turnaround Tim
	PCIT	§ 33	6	33
	P[2]	2	3.3	35
	P [8]		35	36
	A.U. 00 . 1	saiting Time : 22		12 1 11 11 11 11
	U	un around Time: 3	,	
	Homage is	MH STORMA THE		
-1	0.			
21)	Bortest.	Job First Scheduli	7	
				3501+
-	Hindude	Catdio. A>	and the second	
	dot mai	'n()		
2				
t	11111	7 . 7 . 7 . 7	1	
		(0) p[20] wt [20]	, tat (20) i, j	n, total =0;
	Int pos,	temp;		
	float au	gent, aug tat;	-7/436	- 2 5 1 4 3 5 6
	brinte (115	nter number of pr	mc	
	100 1 (1)	1111	ollos);	
	+cany ((d' dn).	Contract of the same	THE RESERVE OF THE PARTY OF THE

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Page No.:
    prints (" n Enter burst time: n");
    for (i=o; icn; i++)
    print(" p y. a:", i+1);
    scanf (" 1. d" & bt [i]);
    p[i] = i+1;
    for (i=0; icn; i++)
    pas = 1;
   for (j=i+1; j'cn; j'++)
    if (b+ [j] < b+[pos])
   pas = j;
 33
  temp = st [i];
  bt [i] = bt [pos];
 6+ [pas] = temp;
 temp = p[i];
 p[i] = p [pos];
 p (pros ] = temp;
  wt (0] = 0;
 for (i=1;icn;i++)
 :0=[i] tu
for (j=0; j<1; j++)
wt[i] == 6+ [j];
dotal + = wt [i];
```

	The second second		
	aug wt = (float) total/	,	
	total = 0; printf (" n Process t Burs	+ Timet walting Timet	Time");
	for (1=0; i <n; i++)<="" td=""><td></td><td></td></n;>		
	tat [1] = 6+ [1] + w+ [1]		
	total t = tat [i]; printy ("n p % d ++ 1/ d +	tot() + 1. dtt 1. d", p[i], bt	tij, wt cij,
3	any tat = (float) total	n:	
	h into [" nn Alles ago Wast	ing Time = 1. to aug - w	t);
	winty ("n Average Turna	Como Cina 1. A	
3			
Ou	Hent: Forter number of	process: 5	The state of the s
	Frita Burst Time		
	p1:4	The second second	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	p2:3		
	þ3:7	The state of the s	- T
	py:1		
	b5 : 2		10 6 7 6
		1	
Pros	ess Burst Time	waiting Time	Turnaneura T
Py		Ö	- 1
Ps		1	3
Pa	3	3	= 6
P	4	6	la
P3	7	10	17
1			

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Amage waiting Time = 4.000000
      Aurage Tunarend Time = 7. 400000
  3) Enionly scheduling
       int x, n, p PoJ, pp [10], pt [10], w[10], t[10], aut, atal,
     thinclude estatio. A?
       prints ("Enter the number of process:");
      print [" /n Enter process ( In");
      for (i=o, ich, itt)
      prints (" In crocess no. of "d? , i+1);
     ocany ("".d ".d", xpt (i), x pp[i));
     p [i] = [+1;
    for (1=0; 1<n-1; i++)
    gor (int j= 1+1; j<n; j++)
   if (pp [i] < pp [j])
    2 = pp [i];
   pp[i] = pp[j].
  pp [j] = x;
  pt [i] = p+[y];
 p+[j] = x;
 x = \beta[i]
p[i] = p[j];
```

```
p[j]=x;
 w (0) =0;
 au+ = 0:
 + [0] = pt [0];
 ata+ [ * = + [0];
 gor (i=1; icn; i++)
 w[i] = + [i-1];
 aut t= w[i];
  + [i] = w[i] + pt [i];
 atatt = + (i);
 prints ("In In Job It Burst Time It waiting time It Turn
                                       Time Priority In'
 for (i=0; icn; i++)
  printy ("In i'd It It 1'a It It ". a It It ". a In", p)
                                   pt[i] w[i] +[i] pp[
 awt /= n;
 atat = n:
 printe l'In Aurage waiting Time: ". d In", aut);
 prints ("In Average Turn Fround Time: "I. of In" atox
rutum 0;
Output: - Fiter the number of knows: 4.
Enter process:
Process No. 113
```

10 19		-
-		
	Crow no 2:4	
	1	
	Process no. 3:5	
	3	
	eroces no 4:6	
	y Time	Priority
	Tot Purst Time waiting Time Tumaround Time	4
	Jah Punet Time Walting 1	3
	Job G G U	
-	3 5	2
	2 4 11	1
	3 13	
	Aurage woulting Time: 8	
Sec.	Average Turn Around Time: 12	
. 1		
4.)	Round Robin Scheduling	-
33.3	#indude (state A)	
1	int main () {	-
	Int 1: limit tates so	_
	int 1: limit total = 0, x counter = 0.	
	Int ctime quantum;	
- 1	int anial-time [10], burst time [10]	
	float awage waiting time average to fine [10];	
-	that all t	
-		
-	cany ("",d" deinit): of processes: "?.	+14
11	= laimit;	· · · · ·
1	mult 1	-
0	n (1=0: 1< limit; 1++)	
1	711	

```
Page Ho.:
            print("In the Retails of Process ["d]", i+1);
            prints ["Arrival Time: +");
deany ("%d", darrival time [i]);
            prints ("Burst Time: +");
           scanf ("", d" & burst - time [i];
           temp[i] = burst-time[i];
            print[ ("In Futu Time ocuantum: t");
            scang[ 117, d" & time quantum];
            printf ("In hours 1 pt+ bunot Time + Tenn around Time +
uty
                                               waiting Time In" );
           for (total = 0; i=0; x1=0)
            y (temp [i] (= time - quantum de temp [i] 50)
             total = total + temp [i];
            tempp [i] = 0;
            counter = 1;
            else if (temp [i] >0)
            temp [i] = temp [i] - time-quantum;
           total = total + time-quantum;
           if (temp (i) == 0 Ad counter=1)
              X -- :
          prints ("In Process [1.d] + 16d + 1.d++ 1.d", (+1, burst - time
                                  - arrival - time [i], total arrival - time -
                                     time (17)
          wait-time = wait-time + total - arrival_time_burst_tim
```

turnar-time = turnar-time + total - arrival time (1); if (i = = lelmit -1) elecif Carrival - time (1+1) (= total the it i++; 1=0. airage_wait-time = wait - time * 1.01 timit; aurage-turner-time = turner-time * 1-0 / limit. prints !" no surage waiting Time ! 1. 8 ", average - wait - time! print (" n Average Turnarand Time: 1. f" average turnar-time outumo; Output: - Fiter Total no. of Mocios: y Enter cetails of hocess [1] Arrival Time: 0 Burst Time: 4 Enter Retails of Knecess [2] Anaival Time: Burst Time: 7

Page No.:

Enter Retails of Process [3]
Assival Time: 2
Burst Time: 5

Forth actable of Process (4)
Avrilal Time: 3
Burst Time: 6

Frater Tim anantom: 3

Crocusip	Burst Time	Tunaround Time	wenting Tilm
Process [1]	4	13	9
RADCISO [3]	5	16	L1
Process [4]	6	19	12
Kraces (2)	7	21	14

Average wasting Time: 11.500000
Average Turn around Time: 17.000000