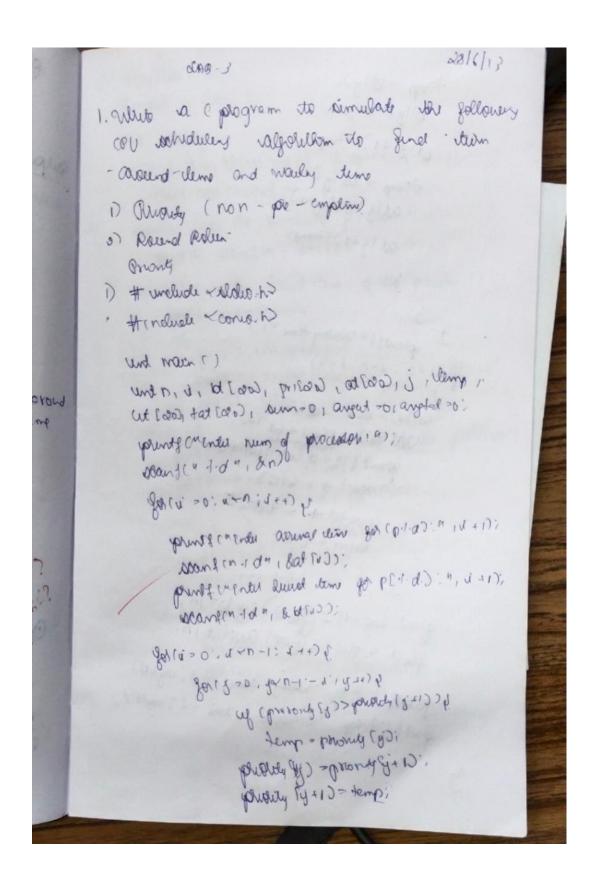
OS LAB-3

Q) Write a C program to simulate the following CPU scheduling algorithm to find turnaround time and waiting time. Priority (Non-pre-emptive) Round Robin (Experiment with different quantum sizes for RR algorithm)

CODE-



```
icalp = anot
    6/18/2= 15/5+1);
   6189 +1) = temp;
     temp = ad (y) di
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   with a much cluster
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  # include < sldun to
  your bus
     and n, i, botto, rollo , of 181=0, tollo), with,
      gload atol=01 and =0)
   phillip Enter the number of processes: i)
       proble scangen + dr, &n):
    pour fluente the level demo of the process."
        A (0,0,9,0,0,0)
           Jan (3-0, 240, 1246) b
           (Cil tal, ub. 1. 1) grace
            Cultde (12 tolk
        purif ( Enda too salvel dum of the processon)
        かいつつい、いていいはかり
                 scanf (n.1.0 11, &ad (1,3);
        plus & ("Enter the clame question" (n");
           occompen 1.d 11, Egt );
     While (1)
            unt dent >1;
            30 (400; in in in 100)
            of (rothis) of
                  done so;
              of, (16/6/1)>9t)
          E 88501 - - 9t;
```

```
else
          St + - 26/ Su];
       icists - Curb - to-cirtu
           10 = Cil 10/8
          tatlid - st - atlid.
       y (done)
          weak;
  pound ! " In Dro cus I + Burst Three I + Turroland own
         1+ Waiting Time Inn);
   (++ in: n=1: 0=11 /ap
 puntfor+det +de+ 1+1. de+ 1+ + de Inng i+1. de (i)
      1. C Ciltui Ciltor
         : Ciltw = + two
        Cistot = + le bo
       aut/= ni
      ind tolo
 plus f ("In Averge to revious Time has ! If", what);
purifair sharge Wastry Time: 1.24 10% and);
      sulver 0;
```

OUTPUT-

Priority(non-pre emptive)

```
Enter number of processors: 4
Enter arrival time for p[1]: 0
Enter burst time for p[1]: 4
Enter priority of p[1]: 3
Enter arrival time for p[2]: 1
Enter burst time for p[2]: 3
Enter priority of p[2]: 4
Enter arrival time for p[3]: 2
Enter burst time for p[3]: 3
Enter priority of p[3]: 6
Enter arrival time for p[4]: 3
Enter burst time for p[4]: 5
Enter priority of p[4]: 5
waiting time
0
3
4
10
Total average waiting time: 4.250000
Total average turnaround time: 8.000000
```

Round robin

```
Enter the number of processes: 5
Enter the burst time of the processes: 5 3 1 2 3
Enter the arrival time of the processes: 0 1 2 3 4
Enter the time quantum: 2
Process Burst Time
                        Turnaround Time Waiting Time
1
       5
                        14
2
       3
                        11
                                        2
3
       1
                        3
4
       2
                        4
                                        2
5
        3
                        9
Average Turnaround Time: 8.20
Average Waiting Time: 5.40
Process returned 0 (0x0) execution time : 19.804 s
Press any key to continue.
```