Name - Parabalit Negr Fatheris Name-Mr. Manoj Negi Student I.D - 20051041 Auronità vog. 40-5053012 Course BSC I.T Demester - 2nd Paper Code-PBI-202 Paper Name - Operating System Type of paper - Regular Campus - Dehradun Ama + # include & stdio.h) main () int at [10], bt[10], rt[10], end Time, i, smallest, proce - ssbrantt [100]; int remain = 0, n, time, sum_wait = 0, sum_ twinoround = 0; print ("Enter no of brocesses:"); Scanf (".1.d", &n); for (i=0; i(n; i++) print f ("Enter avoiva" time for brocess Polod: scanf ("4.d", & at(i)); print f ("Enter burst Time for Process P.10 d:,"i+1);

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```
Scanf ("1.d", & b+[i]);
 ret[i] = bt[i];
  Print of ("InIn Process | t I Two around Time | Waiting Time Inlin);
  ret (9] = 9999;
  for time = 0; remain! = n; time ++)
   smallest =9;
   for ( i = 0; i(n; i++)
   if (atli] <= time 88 ettli] (ett[smallest] && ett(i] >0)
    Process Guantt [time] = i;
    smallest = i;
                             (++1,10=1,10=1)121
    set (smallest] & $ --;
   if (out [smallest]==0)
                Little Heritages with the trans
     remain ++;
     end Time = time +1;
```

```
Bint f ("InP[" x d] / t / / t / / t / / t / / d / small est + 1, end
Time - at [smallest], end Time - bt[smallest]-at (smallest);
 Sum-wait + = end Time-bt [ smallest] - at [ smallest];
 Sum - turnaround + = end Time - at [smallest];
 Print f ("InIn Average waiting time = .1.f In", sum
   -wait * 1.0/n);
   Print f ("Average Turnaround time = 40 f InIn", sum
   -twenaround* 1.0/5);
   fay (i = 0; i = time; i++)
    Print f ("olo d -> Polod"i, process Grant (i]+1);
```

```
main()
                                                          input
^~~~
Enter no of Processes: 4
Enter arrival time for Process P1 : 7
Enter burst time for Process P1 : 8
Enter arrival time for Process P2 : 6
Enter burst time for Process P2 : 5
Enter arrival time for Process P3 : 5
Enter burst time for Process P3 : 5
Enter arrival time for Process P4 : 8
Enter burst time for Process P4 : 5
Process | Turnaround Time | Waiting Time
P[3]
P[2]
            9
P[4]
           12
P[1]
                21
                                13
Average waiting time = 6.000000
Average Turnaround time = 9.400000
0->P2094813689 1->P32734 2->P64550201 3->P1 4->P-1070156335 5->P3 6->P3 7->P3 8->P3 9->P3 10->P2 11->P2 12->P2 13->P2
14->P2 15->P4 16->P4 17->P4 18->P4 19->P4 20->P1 21->P1 22->P1 23->P1 24->P1 25->P1 26->P1 27->P1 28->P-1070156175
...Program finished with exit code 0
Press ENTER to exit console.
```