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Course: BSC I.T
Semester - 2nd
Paper Name - Operating System Paper Code - PBI - 202
Type of paper - Regular
Campus - Dehradun

Ans 2 →

```
# include <stdio.h>
main ()
{
int at[10], bt[10], rt[10], endTime, i, smallest, proce
-ssGrantt[100];
int remain = 0, n, time, sum_wait = 0, sum_
turnaround = 0;
print ("Enter no of Processes :");
Scanf ("%d", &n);
for (i = 0; i < n; i++)

{ printf ("Enter arrival time for Process P%d :
", i+1)
scanf ("%d", &at[i]);
print f ("Enter burst Time for Process P%d :", i+1);
```

Parikshit

```
scanf("%d", &bt[i]);
rt[i] = bt[i];
}
printf("\n\n Process\t| Turnaround Time | Waiting Time\n\n");
rt[9] = 9999;
for time = 0; remain != n; time++)
{
smallest = 9;
for (i = 0; i < n; i++)
{
if (at[i] <= time && rt[i] < rt[smallest] && rt[i] > 0)
{
Process Grantt[time] = i;
smallest = i;
}
}
}
rt[smallest] --;
if (rt[smallest] == 0)
{
remain++;
endTime = time + 1;
```

Prog'

```
Printf ("\nP[%d]\t|\t%d\t|\t%d", smallest+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 ("\n\n Average waiting time = %f \n", sum
 _wait * 1.0/n);

 Print f ("Average Turnaround time = %f \n\n", sum
 _turnaround * 1.0/5);
 for (i=0; i<= time; i++)
 {
 Print f ("%d -> P%d", i, processGrant[i]+1);
 }
 }
```

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