```
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                             Course- Bsc. IT
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                           hull no - 2023062
                             Campus - Dehradun
                            Subject - Operating System bratical.
                                #include = soldio. h>
                                        in main ()
                                        bt [20], p[20], wt [20], tat [20], i, j, n = 4, total = 0, pos tem;
                                                   float avg_wil, avg_fal;
                                                     printf ("In Ender Burst Time : \n");
                                                for (1=0;1<n;1++)
                                                          print f ("p%d:",i+1);
                                                           scanf ("0/0 d", 461 [i])")
                                                       P[i]= i+1;
                                                     for (1=0; 1< n; 1++)
                                                   1 pos = 1;
                                                     for (g = i+ 1; j < n; j++)
                                                  و المرافع ( المرافع ال
                                                                 Pos= 7 3
                                             4 temp = bol [i];
                                                  b 7["]=b7 [pos];
                                                                                                                                                                                                                                                                                                          Khushi Nogo
SHOT ON POCO M2 PRO
```

bl epos] = temp; -lemp=pli]; p [i] = p [pos]; p[pos]=demp", wf [0]=0; for ( i=1 °, i<n; i++) wt (ij=0; for (j°=0; j<2; j++) wt [2]+=bt[j]; total + wil [i]; avg-wit = (float) total/n°, total = 0; print f ("Infrold BT IdWT IdTAT"); for (1=0°, 1<n°, 1++) tal [i] = bol [i] + wot [i]; total + = tal [i]; previst ("Inpold 1+ % d 1+ % d 1, p (i), bles, alt fat [:3); ave- tal = (float) toatal /no, print of ("In In Average waiting Time = % of", ave - w)? printf ("In Average Turnaround Time = % fin", aug - Id) Khushi no gi

## Compile Result

```
_Khushi negi_ Output of SJF
Enter Burst Time:
p1:10
p2:2
p3:1
p4:4
Pro BT WT TAT
```

Pro	ВТ	WT	TAT	
р3	1	0	1	
p2	2	1	3	
p4	4	3	7	
p1	10	7	17	

Average Waiting Time=2.750000 Average Turnaround Time=7.000000

[Process completed - press Enter]

	Arival Time	Burst Time
Process	0	10
$\mathcal{P}_{1}$	0	2
P <sub>3</sub>	0	4
P4	0	

Process	AT	ВТ	СТ	TAT	WT .
P	0	10	17	17	7
P <sub>2</sub>	0	2	3,	3	1
P <sub>3</sub>	0	1	)	1	0
P4	0	4	7	17	3
				Harry Harry	7