NAME - DEEPIKA RAWAT UNIVERSITY. ROII. NO - 2023 5 1

P[pas] = temp;

```
# include < stdio h
Put main ()
bt [20], p[20] wt[20] tat[20], i, n, total=0, pop temp;
float aug wat, aug tat?
points ("Enter number of process: ");
Scary (10% d", &n);
point ("In Enter Burst Time: \n");
for (1=0, ixn; i++)
 printf (1p% do", 1+1);
 Scarf (11%d", 8 bt [1]);
 PC3= 9#13
 for (1=0; 1<n; 1++)
 for (jei+1;jkn;j++)
   of (bt [] < bt [pas])

pas= ;
   temp = bt [i];
   bt [i] = bt [pas];
   bt[pas] = temp;
   temp = p[i];
p[i] = p[pos];
```

```
wot CoJ = O3
tor Cresision; itt)
  w+ [9] = 0;
 for (j=0; j<i; j++)
  W+[1]+ = b+[]];
  total+= wt[1];
 aug cot = (float) fatal /n;
 total so:
  print ("In process) + Burst Time \ twating
The & Turnaround time");
 for (1=0; 1 <n; 1++)
   tat [] = bt [] + w+ [i];
  total + = tat(1);
 2d/ +/ +/ 9. d", p[1], b+ [1], w+ [1], ta+ [1];
  aug tat = (float) total /n;
printf ("In InAverage Waiting Time = "of", aug-wt);
printf ("In Average Turnaround time = %of In", aug-tat);
```

```
1
     int main()
2
3
    {
        int
4
   bt[20],p[20],wt[20],tat[20],i,j,n,total=0,pos,temp;
        float avg_wt,avg_tat;
5
        printf("Enter number of process:");
6
        scanf("%d",&n);
7
        printf("\nEnter Burst Time:\n");
8
        for(i=0;i<n;i++)
9
10
            printf("p%d:",i+1);
11
            scanf("%d",&bt[i]);
12
            p[i]=i+1;
13
        }
14
            for(i=0;i<n;i++)
15
        {
16
            pos=i;
17
             for(j=i+1;j<n;j++)
18
19
             {
                 if(bt[j]<bt[pos])</pre>
20
                 pos=j;
21
             }
22
            temp=bt[i];
23
            bt[i]=bt[pos];
24
            bt[pos]=temp;
25
            temp=p[i];
26
            p[i]=p[pos];
27
            p[pos]=temp;
28
29
        wt[0]=0;
30
        for(i=1;i<n;i++)
31
32
            wt[i]=0;
33
            for(j=0;j<i;j++)
34
            wt[i]+=bt[i];
35
            total+=wt[i];
36
37
        avg_wt=(float)total/n;
38
        total=0;
39
        printf("\nProcess\t
                                  Burst Time
                                                 \tWaiting
40
   Time\tTurnaround Time");
        for(i=0;i<n;i++)
41
42
        {
43
            tat[i]=bt[i]+wt[i];
44
            total+=tat[i];
            printf("\np%d\t\t %d\t\t
45
   %d\t\t\t%d",p[i],bt[i],wt[i],tat[i]);
        }
46
47
             avg tat=(float)total/n;
        printf("\n\nAverage Waiting Time=%f",avg_wt);
48
        printf("\nAverage Turnaround Time=%f\n",avg_tat);
49
50
   }
```

#include<stdio.h>



CODE OUTPUT

Enter number of process:

Enter Burst Time:

p1:p2:p3:p4:

Process Burst Time Waiting Time

Turnaround Time

p3 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