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BSC IT.

Ques 2.

Ans.

```
# include <stdio.h>
int main ()
{ int bt[20], p[20], wt[20], tat[20], i, j, n, total=0, pos, temp;
float avg_wt, avg_tat;
printf ("Enter number of process : ");
scanf ("%d", &n);
printf ("\n Enter Burst Time : \n ");
for(i = 0 ; i< n ; i++)
{ printf ("p %d ", i+1);
  scanf ("%d", &bt[i]);
  p[i] = i+1; }
// sorting of burst times.
for( i =0 ; i< n ; i++)
{  pos = i ;
   for( j= i+1; j <n ; j++)
{  if (bt[j] < bt[pos])
     pos = j ;
}
  temp = bt[i];
  bt[i] = bt[pos];
```

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```
bt [pos] = temp ;
temp = p[i];
p [i] = p [pos] ;
p [pos] = temp;
}
  wt [0] = 0;
for (i = 1 ; i < n ; i++)
{  wt [i] = 0 ;
  for (j = 0 ; j < i ; j++)
    wt [i] += bt [j];
    total += wt [i];
  }
  avg_wt = (float) total / n;
  total = 0;
  printf ("\n Process t Burst Time + Waiting Time Turnaround Time");
for (i = 0; i < n ; i++)
{  tat [i] = bt [i] + wt [i];
    total += tat [i];
  printf ("\np %dtt %dtt %dttt %dt",
  p [i], bt [i], wt [i], tat [i]);
  }
avg_tat = (float) total / n;
printf ("\n Average Wating Time = %f", avg_wt);
printf ("\n Average Turnaround time = %f\n", avg_tat);
return 0; }.
```

```
Enter number of process:4

Enter Burst Time:
p1:10
p2:2
p3:1
p4:4

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

Process returned 0 (0x0)   execution time : 19.949 s
Press any key to continue.
```