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Course - BSCIT
Section - A

Paper name - Operating System Practical Midterm
Paper Code - PB1202

Answer-2.

```
#include <stdio.h>
int main()
{
int bt[10], 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;
}
pos = 1;
For (j=1 ; j<n ; j++)
{
if (bt [j] <bt [pos])
pos = j;
}
```

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```
        temp = bt[i];
        bt[i] = bt[pos];
        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 \t Waiting Time \t
                Turnaround Time");
    for (i = 0; i < n; i++)
    {
        tat[i] = bt[i] + wt[i];
        total += tat[i];
        printf ("\np%d\t\t %d\t\t %d\t\t\t %d",
                p[i], bt[i], wt[i], tat[i]);
    }
```

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```
    avg_tat = (float) total/n;
    printf("\n\nAverage Waiting Time = %f", avg_wt);
    printf("\nAverage Turnaround Time = %f\n", avg_tat);
}
```

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input

```
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


...Program finished with exit code 0
Press ENTER to exit console.
```