Q.2→

```c
#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("nEnter Burst Time:n");
    for(i=0; i<n; i++)
    {
        printf("p%d", i+1);
        scanf("%d", &bt[i]);
        p[i] = i+1;
    }

    for(i=0; i<n; i++)
```
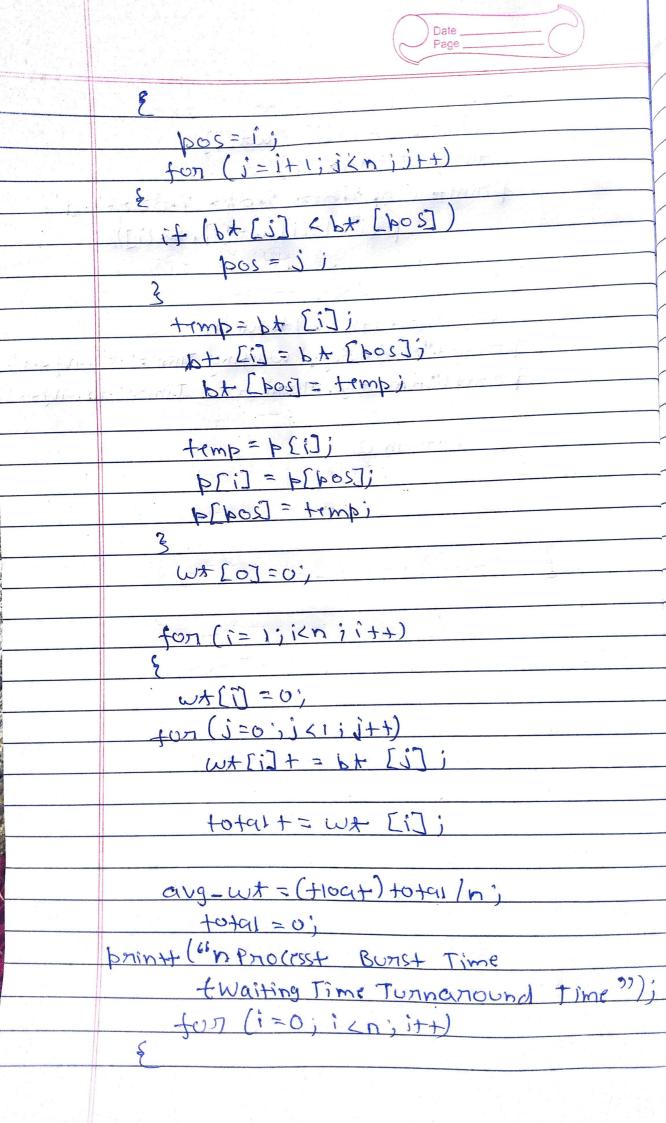
```
{
    pos = i;
    for (j = i+1; j<n; j++)
    {
        if (bt [j] < bt [pos])
            pos = j;
    }
        temp = bt [i];
        bt [i] = bt [pos];
        bt [pos] = temp;

        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 Processt   Burst Time
                tWaiting Time Turnaround time");
            for (i=0; i<n; i++)
        {
```

```
}
        tat [i] = bt [i] + wt [i];
        total t = tat [i];
        printf ("np %.d** %.d** %.d* **%.d",
               p [i], bt [i], wt [i], tat [i]);

3.

        avg_tat = (float) total / n;
        printf ("nn Average waiting Time = %f", avg_wt);
        printf ("n Average Turnaround Time = %fn, avg_wt);

        return 0;
}
```

```
"D:\bsc.it\c program\timepass 3.exe"
```

```
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.
```

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