Name - Nihasika Sharma
Course - BSC. IT A
Student id - 2005207 6
Roll no - 2023071.

Question 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++)
```

Nihasibd

```c
{
    wt[i] = 0;
    for (j = 0; j < i; j++)
        wt[i] += bt[j];

    total += wt[i];
}

avg_wt = (float) total / n;
total = 0;

printf("\nProcess\t Burst Time \tWaiting 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 %d", p[i], bt[i], wt[i], tat[i]);
}

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

return 0;
}
```

Nihari

```
Enter number of process:4
nEnter Burst Time:np1:010
p2:02
p3:01
p4:04
nProcesst    Burst Time    twaiting TimetTurnaround Timenp3tt    1tt    0tttnp2tt    2tt    1ttt3np4tt    4tt    3ttt7np1tt
10tt    7ttt17nnAverage Waiting Time=2.750000nAverage Turnaround Time=7.000000n
------------------------------------
Process exited after 20.74 seconds with return value 0
Press any key to continue . . .
```

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\niharikaa sharma\OneDrive\Documents\sasa.exe
- Output Size: 129.1015625 KiB
- Compilation Time: 0.52s

☐ Shorten compiler paths