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Course - B.Sc IT

1.)

```
#include <stdio.h>

int main()

{
  int n, i, j, bt[20], wt[20], tat[20];
  float avwt = 0, avtat = 0;
  printf("Enter total number of processes (maximum 20):");
  scanf("%d", &n);

  printf("\nEnter Process Burst Time\n");
  for(i=0; i<n; i++)
  {
    printf("P[%d]:", i+1);
    scanf("%d", &bt[i]);
  }
  wt[0]=0;  // waiting time for first process is 0

  // calculating waiting time
  for(i=1; i<n; i++)
  {
    wt[i]=0;
    for(j=0; j<i; j++)
      wt[i]+=bt[j];
  }
```

Finished

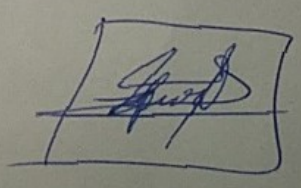
```
printf("\n Process \t\t Burst Time \t Waiting Time \
t Turnaround Time");

// calculating turnaround time
for (i=0; i<n; i++)
  {
    tat[i] = bt[i] + wt[i];
    avwt += wt[i];
    avtat += tat[i];
    printf("\n P[%d] \t\t %d \t\t %d \t\t %d",
           i+1, bt[i], wt[i],
           tat[i]);
  }

  avwt /= i;
  avtat /= i;
  printf("\n\n Average Waiting Time: %f",
         avwt);
  printf("\n Average Turnaround Time:
         %f", avtat);

  return 0;

}
```



os_prac.c > main()

```c
#include<stdio.h>

int main()
{
    int n,bt[20],wt[20],tat[20],avwt=0,avtat=0,i,j;
    printf("Enter total number of processes(maximum 20):");
    scanf("%d",&n);

    printf("\nEnter Process Burst Time\n");
    for(i=0;i<n;i++)
    {
        printf("P[%d]:",i+1);
        scanf("%d",&bt[i]);
    }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Code

```
P[3]:10
P[4]:11

Process         Burst Time      Waiting Time    Turnaround Time
P[1]            6               0               6
P[2]            8               6               14
P[3]            10              14              24
P[4]            11              24              35

Average Waiting Time:11
Average Turnaround Time:19
PS C:\Users\neelam\OneDrive\Documents\vs code c language\file handling qus>
```

Ln 13, Col 28 Spaces: 4 UTF-8 CRLF C Win32