

EXP 3

```
#include<stdio.h>
```

```
int main()
```

```
/* Total no of processors */
```

```
{  
    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);
```

```
/* Enter burst time */
```

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

```
/* Calculating waiting time */
```

```
    wt[0]=0;  
  
    for(i=1;i<n;i++)  
    {  
        wt[i]=0;  
        for(j=0;j<i;j++)  
            wt[i]+=bt[j];  
    }  
    printf("\nProcessttBurst TimetWaiting TimetTurnaround Time");
```

```
/* Calculating total turn around time & waiting time */
```

```
    for(i=0;i<n;i++)  
    {  
        tat[i]=bt[i]+wt[i];  
        avwt+=wt[i];  
        avtat+=tat[i];  
        printf("nP[%d]tt%dttdtt%d",i+1,bt[i],wt[i],tat[i]);  
    }
```

```
/* Calculating average waiting time and turn around time */
```

```
    avwt/=i;  
    avtat/=i;  
    printf("\nnAverage Waiting Time:%d",avwt);  
    printf("\nAverage Turnaround Time:%d",avtat);
```

```
    return 0;
}
```

```
Enter total number of processes(maximum 20):3
nEnter Process Burst TimenP[1]:6
P[2]:4
P[3]:1
nProcessttBurst TimetWaiting TimetTurnaround TimenP[1]tt6tt0tt6nP[2]tt4tt6tt10nP[3]tt1tt10tt11nnAverage Waiting Time:5nAverage Turnaround Time:9
-----
Process exited after 6.403 seconds with return value 0
Press any key to continue . . .
```