

(1)

Name - Ashish Panwar

Course - B.SC [IT]

Section - 'A'

University Roll NO - 2023039

Semester - 2<sup>nd</sup>.

Subject - PBI-202

Q1 (1)

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

```
int main () {
```

```
    int bt[10] = {0}, at[10] = {0}, lat[10] = {0}, wt[10]
    = {0}, ct[10] = {0};
```

```
    int n, sum = 0;
```

```
    float totalTAT = 0, totalWT = 0;
```

```
    printf("Enter number of processes");
```

```
    scanf("%d", &n);
```

```
    printf("Enter arrival time and burst time for
    each process \n\n");
```

```
    for (int i = 0; i < n; i++)
```

```
    {
        printf("Arrival time of process [%d]", i+1);
        scanf("%d", &bt[i]);
```

Ashish Panwar  
19/06/2021



(2)

```
printf("Burst time of process [%d]", i+1);  
scanf("%d", &bt[i]);
```

```
printf("\n");  
}
```

```
for (int j=0; j<n; j++)
```

```
{  
    sum += bt[j];  
    ct[j] += sum;
```

```
}
```

```
for (int k=0; k<n; k++)
```

```
{  
    lat[k] = ct[k] - at[k];  
    total TAT += lat[k];
```

```
}
```

```
for (int k=0; k<n; k++)
```

```
{  
    wt[k] = lat[k] - bt[k];  
    total WT += wt[k];
```

```
}
```

```
printf("Solution: \n\n");
```

```
printf("P# | AT | BT | CT | TAT | WT |  
      \n\n");
```

```
for (int i=0; i<n; i++)
```

```
{  
    printf("%d | %d | %d | %d | %d | %d \n",  
           i+1, at[i], bt[i], ct[i], lat[i], wt[i]);
```

```
}
```

Ashish Panwar  
19/06/2021



③  
printf("In Average Turnaround Time = %f\n",  
total TAT/n);

printf("Average WT = %f\n", total WT/n);

return 0;

}

Ashish Panwar

19/06/2021

C:\Users\ASHISH PANWAR\Documents\19program.exe

Enter number of processes 4  
Enter arrival time and burst time for each process

Arrival time of process[1] 0  
Burst time of process[1] 6

Arrival time of process[2] 1  
Burst time of process[2] 8

Arrival time of process[3] 2  
Burst time of process[3] 10

Arrival time of process[4] 3  
Burst time of process[4] 11

Solution:

P#	AT	BT	CT	TAT	WT
P1	0	6	6	6	0
P2	1	8	14	13	5
P3	2	10	24	22	12
P4	3	11	35	32	21

Average Turnaround Time = 18.250000  
Average WT = 9.500000

-----  
Process exited after 48.41 seconds with return value 0  
Press any key to continue . . . \_