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Course :- Bsc IT

Section :- B

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Que :- C Program to implement FCFS Scheduling algorithm - - - - - respectively.

• Program :-

```
#include <stdio.h>
#include <conio.h>
#define max 20
void main()
{
    int i, j, n, bt[max], at[max], wt[max],
    tat[max], temp[max];
    float awt = 0, atat = 0;

    printf("Enter the no. of processes : \n");
    scanf("%d", &n);
    printf("Enter the burst time of process : \n");
    for (i = 0; i < n; i++)
        scanf("%d", &bt[i]);
    printf("Enter the arrival time of the process : \n");
    for (i = 0; i < n; i++)
        scanf("%d", &at[i]);
    temp[0] = 0;
    printf("process \t burst time \t arrival\n");
    printf("time \t waiting time \t turn around time \n");
```

Sign :-

Pallvi  
19-02-21



```

for (i = 0; i < n; i++)
{
    wt[i] = 0;
    tat[i] = 0;
    temp[i+1] = temp[i] + bt[i];
    wt[i] = temp[i] + at[i];
    tat[i] = wt[i] + bt[i];
    awt = awt + wt[i];
    atat = atat + tat[i];

    printf (" %d\t %d\t\t %d\t\t %d\t\t\n", i+1, bt[i], at[i], wt[i], tat[i]);
}

```

```

awt = awt / n;
atat = atat / n;
printf (" Average waiting time is %f\n", awt);
printf (" Average turn around time is %f\n", atat);

```

```

getch();

```

```

}

```

Sign:-

*Rahul*  
19.07.21

```

7  *****/
8  #include<stdio.h>
9  #include<conio.h>
10 #define max 20
11 void main()
12 {
13     int i , j , n , bt[max] , at[max] , wt[max] , tat[max] , temp[max];
14     float awt=0 , atat =0;
15
16     printf("Enter the number of process:\n");
17     scanf("%d" ,&n);
18     printf("Enter the burst time of the process:\n");
19     for(i=0;i<n;i++)
20         scanf("%d" ,&bt[i]);
21     printf("Enter the arrival time of the process:\n");
22     for(i=0;i<n;i++)
23         scanf("%d" ,&at[i]);
24     temp[0]=0;
25     printf("process\t burst time\t arrival time\t waiting time\t turn around time\n");
26
27     for(i=0;i<n;i++)
28     {
29         wt[i]=0;
30         tat[i]=0;
31         temp[i+1]=temp[i]+bt[i];
32         wt[i]=temp[i]-at[i];
33         tat[i]=wt[i]+bt[i];
34         awt=awt+wt[i];
35         atat=atat+tat[i];
36         printf("%d\t %d\t %d\t %d\t %d\t %d\n" , i+1 , bt[i] , at[i] , wt[i] , tat[i]);
37     }
38     awt = awt/n;
39     atat = atat/n;
40     printf("Average waiting time is %f\n" , awt);
41     printf("Average turn around time is %f\n" , atat);
42
43     getch();
44 }

```

```
input
Enter the number of process:
4
Enter the burst time of the process:
6
8
10
11
Enter the arrival time of the process:
0
1
2
3
process    burst time    arrival time    waiting time    turn around time
1          6         0              0              6
2          8         1              5              13
3         10         2             12              22
4         11         3             21              32
Average waiting time is 9.500000
Average turn around time is 18.250000

...Program finished with exit code 0
Press ENTER to exit console.
```