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Interactive C Course

main.c

Run

```c
#include <stdio.h>
int main()
{
    int pid[15];
    int bt[15];
    int n,i;
    printf("Enter the number of processes: ");
    scanf("%d",&n);
    printf("Enter process id of all the processes\n: ");
    for(i=0;i<n;i++)
    {
        scanf("%d",&pid[i]);
    }
    printf("\nEnter burst time of all the processes\n: ");
    for(i=0;i<n;i++)
    {
        scanf("%d",&bt[i]);
    }
    int  wt[n];
    wt[0]=0;
    for(i=1; i<n; i++)
    {
        wt[i]= bt[i-1]+ wt[i-1];
    }
    printf("\nProcess ID     Burst Time     Waiting Time   TurnAround Time\n"
        );
    float twt=0.0;
    float tat= 0.0;
    for(i=0; i<n; i++)
    {
        printf("%d\t\t", pid[i]);
        printf("%d\t\t", bt[i]);
        printf("%d\t\t", wt[i]);
        printf("%d\t\t", bt[i]+wt[i]);
        printf("\n");
        twt += wt[i];
        tat += (wt[i]+bt[i]);
    }
    float att,awt;
    awt = twt/n;
    att = tat/n;
    printf("Avg.waiting time= %f\n",awt);
    printf("Avg turnaround time= %f",att);
}
```

Output

Clear

```
/tmp/3q03fLmRgg.o
Enter the number of processes: 4
Enter process id of all the processes
: 1
2
3
4

5
Enter burst time of all the processes
: 6
8
7
3
Process ID     Burst Time     Waiting Time   TurnAround Time
1       6       0       6
2       8       6       14
3       7       14      21
5       3       21      24
Avg.waiting time= 10.250000
Avg turnaround time= 16.250000
```