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ROLL NO: 27
PRACTICAL NO: 2

```
#include<stdio.h>
//include<conio.h>
#define max 30
void main() {
    int i,j,n,bt[max],wt[max],tat[max],ct[max];
    float awt=0,atat=0;
    clrscr();
    printf("enter the number of process:");
    scanf("%d",&n);

    printf("enter the burst time of process:");
    for(i=0;i<n;i++)

    {
        scanf("%d",&bt[i]);
    }

    printf("process\t burst time\t completion time \twaitng time\tturnaround time\n");
    for(i=0;i<n;i++)
    {
        int
        sum = 0;
        for(j=0;j<n;j++)

        {
            sum = sum+bt[j];
            ct[j] = sum;
        }
    }
    for (i=0;i<n;i++)
    {
        wt[i]
        = 0;
        tat[i]=0;
        for (j=0;j<i;j++)

        {
            wt[i]=wt[i]+bt[j];
        }
        tat[i]=wt[i]+bt[i];
    }
```

```

        awt = awt + wt[i];
    atat = atat + tat [i];
    printf("%d\t%d\t%d\t%d\t%d\t%d\n",i+1,bt[i],ct[i],wt[i],tat[i]);
    }
    awt = awt/n;
    atat = atat/n;
    printf("average waiting time:%f\n",awt);
    printf("average turnaround time:%f",atat);
    //getch()

}

```

output:

pvg-aids-ml@pvgaidsm1-HP-ProDesk-400-G4-SFF:~/Desktop/pratiksha\$ cd "/home/ pvg-aids-ml/Desktop/pratiksha/" && gcc program1.c -o program1 && "/home/pvg-aidsml/Desktop/pratiksha/"program1 enter the number of process:5 enter the burst time of process:2 3 4 5 6

| process | burst time | completion time | waitng time | turnaround time |
|---------|------------|-----------------|-------------|-----------------|
| 1 | 2 | 2 | 0 | 2 |
| 2 | 3 | 5 | 2 | 5 |
| 3 | 4 | 9 | 5 | 9 |
| 4 | 5 | 14 | 9 | 14 5 |
| | 14 | 20 | | 6 20 |

average waiting time:6.000000

average turnaround time:10.000000pvg-aids-ml@pvgaidsm1-HP-ProDesk-400-G4SFF:~/Desktop/divyesh\$ ^C

pvg-aids-ml@pvgaidsm1-HP-ProDesk-400-G4-SFF:~/Desktop/divyesh\$