//fcfs

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

typedef struct{
        int pid,bt,wt,tt;  //struct array
}sp;

int main(){
        int n,i,towt=0,tott=0,tbm=0;
        sp *p; //dynamic array
        printf("FCFS scheduling..\n");
        printf("enter the no. of processes:");
        scanf("%d",&n);
        p=(sp *)malloc(n * sizeof(sp));   //dynamic memory allocation for p
        for(i=0;i<n;i++){
                p[i].pid=i+1;
                printf("\nenter the burtst time for process id %d:",p[i].pid);
                scanf("%d",&p[i].bt);
        }
        //calculation
        printf("\nprocess scheduling....\n");
        printf("process\tburst\twaiting\tturnaround\n");
        for(i=0;i<n;i++){
        tbm+=p[i].bt;
        p[i].tt=tbm;
        p[i].wt=tbm-p[i].bt;
        towt+=p[i].wt;
        tott+=p[i].tt;
        printf("%d\t\t%d\t%d\t%d\n",p[i].pid,p[i].bt,p[i].wt,p[i].tt);
  }
```

```
    printf("avg waiting time:%.2f\n",(float)towt/n);
    printf("avg turnaround time:%.2f\n",(float)tott/n);
    free(p);
    return 0;
}
```