```
PROGRAM:
#include<stdio.h>
#include<conio.h>
struct fcfs{
  int pid:
  int btime:
  int wtime:
  int ttime;
} p[10];
void main()
  int i,n;
  int totwtime=0;
  int totttime=0;
  printf("\nFCFS scheduling ");
  printf("\nenter the no of processes:");
  scanf("%d",&n);
  for(i=0;i< n;i++)
  p[i].pid=i+1;
  printf("burst time of process %d:",p[i].pid);
  scanf("%d",&p[i].btime);
  p[0].wtime=0;
  p[0].ttime=p[0].btime;
  for(i=1;i< n;i++)
     p[i].wtime=p[i-1].wtime+p[i-1].btime;
     p[i].ttime=p[i].wtime+p[i].btime;
     totttime+=p[i].ttime;
     totwtime+=p[i].wtime;
  printf("\nTotal waiting time: %d\n", totwtime);
  printf("Average waiting time: %d\n", totwtime/ n);
  printf("Total turnaround time: %d\n", totttime);
  printf("Average turnaround time: %d\n", totttime / n);
getch();
```

## OUTPUT:

FCFS scheduling enter the no of processes:3 burst time of process 1:24 burst time of process 2:3 burst time of process 3:3

Total waiting time: 51 Average waiting time: 17 Total turnaround time: 57 Average turnaround time: 19

```
PROGRAM:
#include <stdio.h>
#include <conio.h>
struct sjf {
   int pid;
   int btime;
   int wtime;
   int ttime;
} p[10];
void main() {
  int i, j, n;
  int totwtime = 0;
  int totttime = 0;
  struct sjf temp;
 printf("SJF Scheduling\n");
printf("Enter the number of processes: "); scanf("%d", &n); for(i = 0; i < n; i++) {
 printf("Enter the process ID: ");
 scanf("%d", &p[i].pid);
 printf("Enter the burst time: ");
 scanf("%d", &p[i].btime);
 for(i = 0; i < n - 1; i++) {
 for(j = i + 1; j < n; j++) {
 if(p[i].btime > p[j].btime) {
 temp = p[i];
 p[i] = p[j];
 p[j] = temp;
 p[0].wtime = 0;
 p[0].ttime = p[0].btime;
 totttime += p[0].ttime;
 for(i = 1; i < n; i++) {
 p[i].wtime = p[i - 1].wtime + p[i - 1].btime;
 p[i].ttime = p[i].wtime + p[i].btime;
 totwtime += p[i].wtime;
 totttime += p[i].ttime;
 printf("\nTotal waiting time: %d\n", totwtime);
 printf("Average waiting time: %.2f\n", (float)totwtime / n);
 printf("Total turnaround time: %d\n", totttime);
 printf("Average turnaround time: %.2f\n", (float)totttime / n);
getch();
```

## OUTPUT:

SJF Scheduling

Enter the number of processes: 4
Enter the process ID: 1
Enter the burst time: 6
Enter the process ID: 2 Enter the burst time: 8
Enter the process ID: 3 Enter the burst time: 7 Enter the process ID: 4 Enter the burst time: 3

Total waiting time: 28 Average waiting time: 7.00 Total turnaround time: 52

Average turnaround time: 13.00