```
printf("\n Average Turnaround Time : %d
                                    ", avtat);
    return 0;
}
```

output: Enter total number of processes : 3
Enter Process Burst time
P[1] : 33
P[2] : 2
P[3] : 1

process	Burst Time	Waiting time	Turnaround T
P[1]	33	0	33
P[2]	2	35	35
P[3]	1	35	36

Average waiting time : 22
Average Turnaround time : 34

2. Shortes job first scheduling

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

```
int main ()
{
   int bt[20], p[20], wt[20], tat[20], i, n, total=0;
   int pos, temp;
   float avg_wt, avg_tat;
   printf ("Enter number of process:");
   scanf ("%d", &n);
   printf("n Enter :Burst time:n");
   for (i=0; i<n ; i++)
   {
      printf ("p %d:", i+1);
      scanf ("%d", &bt[i]);
      p[i] = i+1;
   }
   for (i=0; i<n ; i++)
   {
      pos=i;
      for (j=i+1; j<n ; j++)
      {
         if (bt[j] < bt[pos])
         pos=j;
      }
   temp = bt[i];
   bt[i] = bt[pos];
   bt[pos] = temp;
   temp = p[i];
   p[i] = p[pos];
   p[pos] = temp;
}
```

```
wt[0]=0;
for (i=1; i<n; i++)
{
    wt[i] = 0;
    for (j=0; j<i; j++)
    {
        wt[i]+= bt[j];
        total += wt[i];
    }
}
    avg_wt = (float) total/n;
    total += tat[i];
    printf("\n p%d \t %d \t %d \t %d", p[i], bt[i]
                                    wt[i], tat[i]);
}
    avg_tat = (float) total/n;
    printf("\n\n Average Waiting Time = %f",
                                    avg_wt);
    printf("\n Average Turnaround Time = %f
                                    \n", avg_tat);
    return 0;
}
```

Output: Enter number of process: 5
Enter Burst Time:
P_1 : 4
P_2 : 3
P_3 : 7
P_4 : 1
P_5 : 2

process	Burst Time	Waiting Time	Average Time
P_4	1	0	1
P_5	2	1	3
P_2	3	3	6
P_1	4	6	10
P_3	7	10	17

Average Waiting Time = 4.000000

Average Turnaround Time = 7.400000