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Exp:6b

**SHORTEST JOB FIRST** 

Aim:

To implement the Shortest Job First (SJF) scheduling technique

## CODE:

```
#include<stdio.h>
int main(){
 printf("Enter the number of processes: ");
 scanf("%d",&n);
 int process[n], burst_time[n],arrival_time[n], waiting_time[n], turn_around_time[n];
 float total_waiting_time=0,total_turn_around_time=0;
 printf("\nEnter the burst time: \n");
 for(int i=0;i<n;i++){
   process[i]=i;
    scanf("%d",&burst_time[i]);
//sorting burst time
 for(int i=0;i<n;i++)
   for(int j=0;j<n-1;j++)
  if(burst_time[j]>burst_time[j+1])//swapping
         burst_time[j]=burst_time[j]-burst_time[j+1];
        process[j]=process[j]-process[j+1];
        burst_time[j+1]=burst_time[j+1]+burst_time[j];
        process[j+1]=process[j+1]+process[j];
        burst time[j]=burst time[j+1]-burst time[j];
        process[j]=process[j+1]-process[j];
//finding waiting time
 waiting_time[0]=0;
 for(int i=1;i<n;i++)
  waiting_time[i]=waiting_time[i-1]+burst_time[i-1];
//finding turnaround time
 for(int i=0;i<n;i++){
  turn_around_time[i]=burst_time[i]+waiting_time[i];
  total_turn_around_time+=turn_around_time[i];
  total waiting time+=waiting time[i];
 printf("\nprocess burst_time waiting_time turn_around_time\n");
```

## **OUTPUT:**