```
#include<stdio.h>
#include<stdlib.h>
struct\,process\{
  int pid;
  int arrival_time;
  int burst_time;
  int FinishTime;
  int TurnaroundTime;
  int WaitingTime;
};
void print_struc(struct process proc[],int p){
  printf("Process\tAT\tBT\tFT\tTT\tWT\n");
  for(inti=0;i< p;i++){
Time,proc[i].TurnaroundTime,proc[i].WaitingTime);
}
int main(){
  printf("Enter the no. of processes:");
  scanf("%d",&p);
  struct process proc[p];
  for(inti=0;i<\!p;i++)\{
    proc[i].pid=i;
  }
  printf("Enter the arrival time for the processes:");
  for(inti=0;i<p;i++){</pre>
    scanf("%d",&proc[i].arrival_time);
 }
  printf("Enter the burst time for the processes:");
  for(inti=0;i<p;i++){
    scanf("%d",&proc[i].burst_time);
  for(inti = 0; i < p-1; i++){
    for(intj=0;j< p-i-1;j++){
      if(proc[j].arrival_time>proc[j+1].arrival_time){
        struct process temp = proc[j];
        proc[j]=proc[j+1];
        proc[j+1]=temp;
      }
    }
  }
  int curr_finish=proc[0].arrival_time;
  for(inti=0;i<p;i++){</pre>
    proc[i].FinishTime=proc[i].burst_time+curr_finish;
```

```
curr_finish=proc[i].FinishTime;
  }
  for(inti=0;i< p;i++){}
    proc[i]. Turn around Time = proc[i]. Finish Time - proc[i]. arrival\_time;
  for(inti=0;i< p;i++){}
    proc[i]. Waiting Time = proc[i]. Turn around Time - proc[i]. burst\_time; \\
  }
  print_struc(proc,p);
  printf("Following is the gantt chart\n");
  for(inti=0;i<p;i++){
    printf("%d\t\t",proc[i].pid);
  printf("\n");
  for(inti=0;i<p;i++){</pre>
    printf("%d\t\t",proc[i].FinishTime);
  }
  return 0;
ALTERNATE CODE -->
#include < stdio.h>
#include<stdlib.h>
// FOR FCFS---->>>
int main()
{// FOR FCFS---->>>
  int n;
  printf("Enter the number of processes:");
  scanf("%d", &n);
  int burst_time[n];
  int arrival_time[n];
  int comp_time[n];
  int tat[n];
  int wait[n];
  int comp[n];
  printf("Enter the arrivaltime for each process:\n");
  for (inti = 0; i < n; i++)
    printf("arrival time of process %d: ", i + 1);
    scanf("%d", &arrival_time[i]);
```

}

```
}
printf("Enter the burst time for each process:\n");
for (inti = 0; i < n; i++)
{
  printf("Bursttime of process %d: ", i + 1);
  scanf("%d", &burst_time[i]);
}
for(inti=0;i<n;i++){
  comp_time[i]=0;
  for(intj=i;j>=0;j--){
    comp\_time[i] = comp\_time[i] + burst\_time[j];
    comp[i] = comp\_time[i];
  }
}
for(inti=0;i< n;i++){
  tat[i]=comp[i]-arrival_time[i];
printf("completion time of processes are:");
for(inti=0;i< n;i++){
  printf("%d--",i+1);
  printf("%d ",comp[i]);
printf("tat time of processes : ");
for(inti=0;i< n;i++){}
  printf("%d--",i+1);
  printf("%d ",tat[i]);
}
return 0;
```