SJF CODE

```
import java.util.*;
import java.io.*;

public class sjf
{

   public static void main(String args[])
   {
      int n,sum=0;
      float total_tt=0,total_waiting=0;

       Scanner s=new Scanner(System.in);
       System.out.println("Enter Number Of Process U want 2 Execute---");
       n=s.nextInt();
       int arrival[]=new int[n];
       int cpu[]=new int[n];
       int finish[]=new int[n];
       int turntt[]=new int[n];
       int wait[]=new int[n];
       int process[]=new int[n];

      // int pro[][]=new int[3][3];
       for(int i=0;i<n;i++)
       {
            System.out.println("Enter arrival time of "+(i+1)+" Process : ");
            arrival[i]=s.nextInt();
            System.out.println("Enter CPU time of "+(i+1)+" Process : ");
            cpu[i]=s.nextInt();
```

```
    process[i]=i+1;
}

for(int i=0;i<n-1;i++)
{
    for(int j=i+1;j<n;j++)
    {
        if(cpu[i]>cpu[j])
        {
            int temp=cpu[i];
            cpu[i]=cpu[j];
            cpu[j]=temp;

            temp=arrival[i];
            arrival[i]=arrival[j];
            arrival[j]=temp;

            temp=process[i];
            process[i]=process[j];
            process[j]=temp;


        }
    }
}

for(int i=0;i<n;i++)
{
```

```
            sum=sum+cpu[i];
            finish[i]=sum;
        }

        for(int i=0;i<n;i++)
        {
            turntt[i]=finish[i]-arrival[i];

            total_tt=total_tt+turntt[i];

            wait[i]=turntt[i]-cpu[i];

            total_waiting+=wait[i];
        }

        System.out.println("\n\nProcess\t\tAT\tCPU_T");
        for(int i=0;i<n;i++)
        {
            System.out.println(process[i]+"\t\t"+arrival[i]+"\t"+cpu[i]);
        }

        System.out.println("\n\n");
        System.out.println("Total turn around time is : "+(total_tt/n));
        System.out.println("Total waiting time is : "+(total_waiting/n));


    }
}
```

OUTPUT

Enter Number Of Process U want 2 Execute---

2

Enter arrival time of 1 Process :

0

Enter CPU time of 1 Process :

3

Enter arrival time of 2 Process :

2

Enter CPU time of 2 Process :

5

Process	AT	CPU_T
1	0	3
2	2	5

Total turn around time is : 4.5

Total waiting time is : 0.5