

Indian Institute of Information Technology Sonepat

Operating Systems Lab (ITC-403) Lab File

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LAB 2

Problem: Implementation of SJF scheduling algorithm.

CODE:

```
#include<iostream>
using namespace std;
int main()
      int n,temp,tt=0,min,d,i,j;
      float atat=0,awt=0,stat=0,swt=0;
      cout<<"\n";
      int a[n],b[n],e[n],tat[n],wt[n];
      for(i=0;i<n;i++)</pre>
            cout<<"enter arival time: ";  //input</pre>
           cin>>a[i];
    cout<<"\n";</pre>
      for(i=0;i<n;i++)</pre>
            cout<<"enter brust time: "; //input</pre>
            cin>>b[i];
      for(i=0;i<n;i++)
         for(j=i+1;j<n;j++)
                if(b[i]>b[j])
                      temp=a[i];
                      a[i]=a[j];
                      a[j]=temp;
                      temp=b[i];
                      b[i]=b[j];
                      b[j]=temp;
      min=a[0];
      for(i=0;i<n;i++)
            if(min>a[i])
                  min=a[i];
                  d=i;
      tt=min;
      e[d]=tt+b[d];
      tt=e[d];
      for(i=0;i<n;i++)</pre>
            if(a[i]!=min)
```

OUTPUT:

```
os2 } ; i† ($?) { .\os2 }
enter no of process: 2
enter arival time: 2000
enter arival time: 3000
enter brust time: 2500
enter brust time: 1500
Process Arrival-time(s) Burst-time(s) Waiting-time(s) Turnaround-time(s)
P1
                 3000
                                     1500
                                                        1500
                                                                            3000
P2
                                                                         2500
awt=750 atat=2750
PS C:\Users\ujjwa\OneDrive\Desktop\New folder (2)>
```