OS LAB

WEEK-01

FIRST COME FIRST SERVE CPU SCHEDULING

Program:

```
#include<stdio.h>
#include<conio.h>
void main()
{
   int n,a[20],b[20],c[20],w[20],tat[20],i,st=0,sum=0,sum1=0;
   float avg,avg1;
   printf("Enter the number of processors:\n");
   scanf("%d",&n);
   for(i=0;i<n;i++)
   {
      a[i]=i+1;
      printf("enter %d processor details:\n",i+1);
      printf("enter the burst time:\n");
      scanf("%d",&b[i]);
      printf("enter the arrival time:\n");
      scanf("%d",&c[i]);

   }
   for(i=0;i<n;i++)
   {
      printf("Process %d starts at %d and ends at %d\n",i+1,st,st+b[i]);
      tat[i]=st+b[i]-c[i];
      printf("turnaround time is %d\n",tat[i]);
      st=st+b[i];
```

```
    w[i]=tat[i]-b[i];
    printf("waiting time is %d\n",w[i]);
    sum+=w[i];
    sum1+=tat[i];
  }
  avg=(float)sum/n;
  avg1=(float)sum1/n;
  printf("Avg turn around time for FCFS cpu scheduling is %f:\n",avg1);
  printf("Avg waiting time for FCFS cpu scheduling is:%f",avg);


}
```

Output: