## AIM:

Ex.No:6a

To write a program to implement the FCFS (First Come First Serve) CPU scheduling Algorithm

FCFS (FIRST COME FIRST SERVE) CPU SCHEDULING

## **ALGORITHM:**

- 1. START the program
- 2. Get the number of processors
- 3. Get the Burst time of each processors
- 4. Calculation of Turn Around Time and Waiting Time
  - a) tot\_TAT = tot\_TAT + pre\_TAT
  - b) avg TAT = tot TAT/num of proc
  - c) tot\_WT = tot\_WT + pre\_WT + PRE\_BT
  - d) avg\_WT = tot\_WT/num\_of\_proc
- 5. Display the result
- 6. STOP the program

## **PROGRAM:** (FCFS Scheduling)

```
#include<stdio.h>
#include<conio.h>
int p[30],bt[30],tot_tat=0,wt[30],n,tot_wt=0,tat[30],FCFS_wt=0,FCFS_tat=0;
float awt,avg_tat,avg_wt;
void main()
{
    int i;
    clrscr();
    printf("\nEnter the no.of processes \n");
    scanf("%d",&n);
    printf("Enter burst time for each process\n");
```

```
for(i=0;i<n;i++)
{
    scanf("%d",&bt[i]);
    p[i] = i;
}
printf("\n FCFS Algorithm \n");
WT_TAT(&FCFS_tat,&FCFS_wt);
printf("\n\nTotal Turn around Time:%d",FCFS_tat);
printf("\nAverage Turn around Time:%d",FCFS_tat/n);
printf("\nTotal Waiting Time:%d",FCFS_wt);
printf("\nTotal avg. Waiting Time:%d",FCFS_wt/n);
getch();
}
int WT_TAT(int *a, int *b)</pre>
```

```
int i;
for(i=0;i<n;i++)
 if(i==0)
  tat[i] = bt[i];
 else
  tat[i] = tat[i-1] + bt[i];
 tot_tat=tot_tat+tat[i];
*a = tot_tat;
wt[0]=0;
for(i=1;i<n;i++)
 wt[i]=wt[i-1]+bt[i-1];
 tot_wt = tot_wt+wt[i];
*b = tot_wt;
printf("\nPROCESS\t\tBURST\ TIME\tTURN\ AROUND\ TIME\tWAITING\ TIME");
for(i=0; i<n; i++)
printf("\nprocess[\%d]\t\t\%d\t\t\%d\t\t\%d",p[i],bt[i],tat[i],wt[i]);
```

**OUTPUT**: (FCFS Scheduling Algorithm)

return 0;

<b>RESULT:</b> Thus the Algorithm was write			duling