Mawlana Bhashani Science and Technology University

Lab-Report

Report No: 07

Course code: ICT-3110

Course title: Operating Systems Lab

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Name of the lab report : Implementation of FCFS Scheduling Algorithm.

Q.1 What is FCFS Scheduling algorithm?

Answer: First come, first served (FCFS) is an operating system process scheduling algorithm and a network routing management mechanism that automatically executes queued requests and processes by the order of their arrival. With first come, first served, what comes first is handled first; the next request in line will be executed once the one before it is complete.

Q.2 How to implemented in C?

Answer:

The code written in c are given below:

```
#include<stdio.h> using

namespace std; int

main()

{

   int                 n,bt[40],wt[30],tat[25],avwt=0,avtat=0,i,j;

printf("Enter total number of processes(maximum 20):");

scanf("%d",&n);


   printf("\nEnter Process Burst Time\n");

for(i=0; i<n; i++)

   {

      printf("P[%d]:",i+1);

scanf("%d",&bt[i]);

   }


   wt[0]=0;

   for(i=1; i<n; i++)

   {

      wt[i]=0;

for(j=0; j<i; j++)

wt[i]+=bt[j];
```

```
    }

    printf("\nProcess\t\tBurst Time\tWaiting Time\tTurnaround
Time");

    for(i=0; i<n; i++)
    {
        tat[i]=bt[i]+wt[i];       avwt+=wt[i];       avtat+=tat[i];
printf("\nP[%d]\t\t%d\t\t%d\t\t%d",i+1,bt[i],wt[i],tat[i]);
    }

    avwt/=i;    avtat/=i;    printf("\n\nAverage
Waiting Time:%d",avwt);    printf("\nAverage
Turnaround Time:%d",avtat);

    return 0;
}
```

Output: