Mawlana Bhashani Science and Technology University

Lab-Report

Lab Report No: 07

Lab Report Name: Implementation of FCFS Scheduling Algorithm.

Course code: ICT-3110

Course title: Operating System Lab

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Experiment Name: Implementation of FCFS Scheduling Algorithm.

Question-01:

What is FCFS Scheduling algorithm?

Answer:

FCFS stands for 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.

Question-02:

How to implemented in C?

Answer:

Implemented code in C is given bellow:

```
#include<stdio.h>

using namespace std;

int main()

{

   int    n ,burst[40],wait[30],turnaround[25],avgwait=0,avgturnaround=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",&burst[i]);
   }

wait[0]=0;
for(i=1; i<n; i++)
{  wait[i]=0;
for(j=0; j<i; j++)
   wait[i]+=burst[j];
   }

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


for(i=0; i<n; i++)
   {
turnaround[i]=burst[i]+wait[i];
avgwait+=wait[i];
  avgturnaround+=turnaround[i];
         printf("\nP[%d]\t\t%d\t\t%d\t\t%d",i+1,burst[i],wait[i],turnaround[i]);
```

```
    }


avgwait/=i;

   avgturnaround/=i;

printf("\n\nAverage Waiting Time:%d",avgwait);

     printf("\nAverageTurnaround Time:%d",avgturnaround);



    return 0;

}
```

Output: