

Mawlana Bhashani Science and Technology University Lab-Report

Lab Report No: 11

Lab Report Name: Implementation of FIFO page replacement Algorithm

Course code: ICT-3110

Course title: Operating System Lab

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Name of the Lab Report: Implementation of FIFO page replacement Algorithm

Objective: FIFO page replacement algorithm Definition & executable code in c are followed.

1. What is FIFO page replacement algorithm?

Answer: This is the simplest page replacement algorithm. In this algorithm, the operating system keeps track of all pages in the memory in a queue, the oldest page is in the front of the queue. When a page needs to be replaced page in the front of the queue is selected for removal

2. How to implemented in C?

Answer:

Source Code:

```
#include<stdio.h>
int main()
{
               int i,j,n,a[50],frame[10],no,k,avail,count=0;
               printf("\nENTER THE NUMBER OF PAGES:\n");
               scanf("%d",&n);
               printf("\nENTER THE PAGE NUMBER :\n");
               for(i=1; i <= n; i++)
                   scanf("%d",&a[i]);
               printf("\nENTER THE NUMBER OF FRAMES :");
               scanf("%d",&no);
               for(i=0; i< no; i++)
                   frame[i]= -1;
               i=0;
               printf("\tref string\t page frames\n");
               for(i=1; i \le n; i++) 
                   printf("%d\t\t",a[i]);
                   avail=0:
                   for(k=0; k< no; k++)
```

Output:

}

```
/home/arif/Documents/FIFO

ENTER THE NUMBER OF PAGES:
7

ENTER THE PAGE NUMBER:
7 0 1 2 0 3 0 4 2 3 0 3 2 1 2

ENTER THE NUMBER OF FRAMES: ref string
7 7 -1 -1 -1
0 7 0 -1 -1
1 7 0 1 -1
2 7 0 1 -1
2 7 0 1 2
0
3 3 0 1 2
0
Page Fault Is 5
```