

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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Experiment Name: Implementation of FIFO page replacement Algorithm.

Question-01:

What is FIFO page replacement algorithm?

Answer:

First in first out (FIFO) is the simplest page replacement algorithm. In this algorithm, aqueue is maintained. The page which is assigned the frame first will be replace first. 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

Question-02:

How to implemented in C?

Answer:

```
#include<stdio.h>
int main() {
 int i,j,n,a[45],f[30],no,k,av,count=0;
  printf("\n ENTER THE NUMBER OF PAGES: ");
scanf("%d",&n);
  printf("\n ENTER THE PAGE NUMBER : "); for(i=1;
             scanf("%d",&a[i]);
i<=n; i++)
  printf("\n ENTER THE NUMBER OF FRAMES :");
scanf("%d",&no); for(i=0; i<no; i++)
                                         f[i] = -1; j = 0;
  printf("\tref string\t page frames\n"); for(i=1;
i<=n; i++)
       printf("%d\t\t",a[i]);
 {
av=0;
```

Output:

```
C:\Osers\my\Documents\Ontitied r.exe
 ENTER THE NUMBER OF PAGES: 4
 ENTER THE PAGE NUMBER : 1 2 3 4 5
 ENTER THE NUMBER OF FRAMES :
                                 ref string
                                                   page frames
                         -1
                                 -1
                                          -1
                                                  -1
                1
                         2
                                 -1
                                          -1
                                                  -1
                         2
                                          -1
                                                  -1
                         2
                                 3
                 1
                                          4
                                                  -1
Page Fault Is 4
Process returned 0 (0x0)
                            execution time : 29.797 s
Press any key to continue.
```