

Lab-Report

Report No: 11

Course code: ICT-3110

Course title: Operating Systems Lab

Date of Performance:

Date of Submission: 11/09/2020

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3th year 1st semester

Session: 2017-2018

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Name of the lab report : Implementation of FIFO page replacement Algorithm.

Q.1 What is FIFO page replacement algorithm?

Ans: 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

Q.2 How to implemented in C?

Ans:

```
#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; i<=n; i++)
        scanf("%d",&a[i]);

    printf("\n ENTER THE NUMBER OF FRAMES :");
    scanf("%d",&no);

    for(i=0; i<no; i++)
        f[i]= -1;

    j=0;

    printf("\ntref string\t page frames\n");

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

```

{
    printf("%d\t\t",a[i]);
    av=0;
    for(k=0; k<no; k++)
        if(f[k]==a[i])
            av=1;
    if (av==0)
    {
        f[j]=a[i];
        j=(j+1)%no;
        count++;
        for(k=0; k<no; k++)
            printf("%d\t",f[k]);
    }
    printf("\n");
}
printf("Page Fault Is %d",count);
return 0;
}

```

Output:

ENTER THE NUMBER OF PAGES: 5

ENTER THE PAGE NUMBER : 1 2 4 0 1

ENTER THE NUMBER OF FRAMES : 4

	ref string	page	frames	
1	1	-1	-1	-1
2	1	2	-1	-1
4	1	2	4	-1
0	1	2	4	0
1				

Page Fault Is 4

Process returned 0 (0x0) execution time : 20.822 s

Press any key to continue.