Mawlana Bhashani Science and Technology University

Lab-Report

Lab Report No: 11
Lab Report Name: Implementation of FIFO page replacement Algorithm
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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

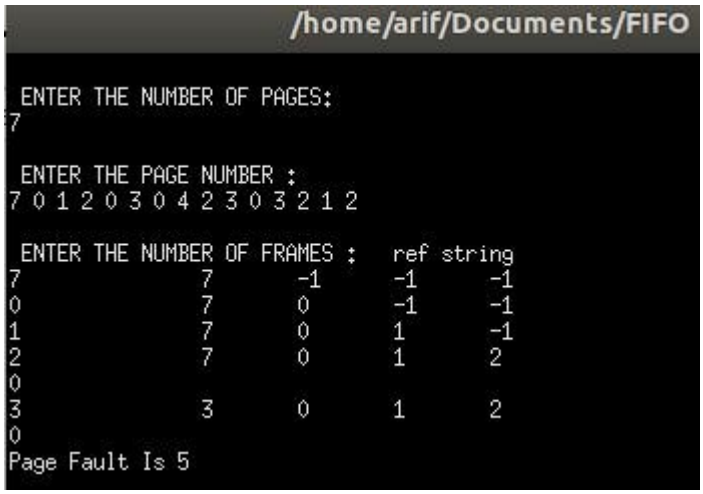
2. How to implemented in C? Answer:

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;
        j=0;
        printf("\tref string\t page frames\n");
        for(i=1; i<=n; i++) {
            printf("%d\t\t",a[i]);
            avail=0;
            for(k=0; k<no; k++)
```

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

Output:



Conclusion: In this Lab report we learnt about FIFO page replacement algorithm. In this algorithm, the operating system keeps track of all pages in the memory in a queue, yhe oldest page in the front of the queue. When a page needs to be replaced page in front of the queue is selected for removal. For our better understand we have used C language.

3.