Ex. No.: 11a)
Date: 16 425

FIFO PAGE REPLACEMENT

Aim:

To find out the number of page faults that occur using First-in First-out (FIFO) page replacement technique.

Algorithm:

1. Declare the size with respect to page length

2. Check the need of replacement from the page to memory

- Check the need of replacement from old page to new page in memory 4.
 Form a queue to hold all pages
- 5. Insert the page require memory into the queue
- 6. Check for bad replacement and page fault

include < stdio.h>

- Get the number of processes to be inserted
- 8. Display the values

Program Code:

```
int refsticion, frames [10];
int refsticion, frames [10];
int sefaze [100], frames [20];
int index = 0, istit, pf=0;
printf ("Enter size of ref string;");
sant ("lod", & sefaze);
for (int i = 0; i = refsize; itt)?

printf ("Enter [lod]; "it);
sant ("lod", & refsize; itt);

y
sthtf ("Enter page frame size:");
for (int I=0; i < refsize; itt)?

istit=0;
for (int j=0; j < framesize; j+t)?

if (frames [j] = refstr[i])?

istit=1;

breek;
```

```
9 P (! isHit) 2
       frames [index] = refstr [i];
        index = (index+1) % framosize;
        printf("%d>", substr[1]);
       for (int k=0; k=framesize; k++) {

if (frames[k]) =-D

print ("%d"; frames[k]);
       print+("\n");
    printf ("%d > No page faults \n", refsty [i]);
printf ("In Total page faults " tod In", pf);
```

Sample Output:

[root@localhost student]# python fifo.py

```
Enter the size of reference string: 20
Enter [1]: 7
Enter [2]:0
Enter [3]:1
Enter [4]:2
Enter [ 5]: 0
Enter [6]: 3
Enter [7]:0
Enter [8]:4
Enter [9]:2
Enter [10]: 3
Enter [11]: 0
Enter [12]: 3
Enter [13]: 2
Enter [14]: 1
Enter [15]: 2
Enter [16]: 0
Enter [17]: 1
Enter [18]: 7
Enter [19]: 0
Enter [20]: 1
Enter page frame size: 3
7 -> 7 - -
0 -> 70 -
1 -> 701
2->201
0 -> No Page Fault
3 - 231
0 -> 230
4->430
2 -> 420
3->423
0 -> 023
3 -> No Page Fault
2 -> No Page Fault
1->013
2->012
0 -> No Page Fault
1 -> No Page Fault
7->712
0->702
```

```
1 -> 701
```

Total page faults: 15. [root@localhost student]#

DUTPUT:

Enter the size of ref string: 7

Enter page frame size: 3

Enter[1]:1

Enter [2]:3

Enter[3]:0

Enter [4]:3

Enter[5]:5

Enterf6J:1

Enter[7]:3

1->1

3->13

0->130

3 -> No page fault Total page faults: b

5-> 530

6 -> 560

3-7 563

A program for finding the page fault wing FIFO ouplacement.