Ex. No.: 11a) Date: 16/4/25

## 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

- 3. 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
- 7. Get the number of processes to be inserted
- 8. Display the values

### Program Code:

# include Cotalio. W. int main () { int reportation, frames (10); int reforts, frame size; int index = 0; is Hit, pf = 0; print ("Enter size of not string;"); Scanf (" 1.d" , A ref prèc); for (int 1=0; 1 <= reforer; 1++) [ printly ("Enter G.d]: ", (+1); Scarf ("Y.d", & nefoth [1]); print f ("Enter page hame sièc: "); sunt ("1.d", & hame pie : "); for (int 1:0; 12 repries ; 1+4) [ istid = 0;

```
for (int j =0; j < framesia; j+4) [
              if (hames []] = = nepstr [i]) {
                     われきこり
                     break;
             3
      z
      4 (1 is Hid) 8
          hameslinder] : reforti];
          index = (index +1) 1/. pamesize;
          Ptti
          prints ("1.d =", refort (i]);
          for (ind 120, le famusie ; kH) [
              if (hames (k) 1 :- )
                    print ("-1.d", pames (12]);
        printf ("In");
         printly (" 1,d -> No page faults In", refstr [i]);
printf ("In Total page faults: "/d/n", pf);
```

3

#### 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 -> 7 0 -1 -> 7 0 1

```
2 -> 2 0 1

0 -> No Page Fault

3 -> 2 3 1

0 -> 2 3 0

4 -> 4 3 0

2 -> 4 2 0

3 -> 4 2 3

0 -> 0 2 3

3 -> No Page Fault

1 -> 0 1 3

2 -> 0 1 2

0 -> No Page Fault

1 -> No Page Fault
```

0 -> 702

1 -> 7 0 1 Total page faults: 15. [root@localhost student]#

OUTPUT:

Enter the orze of net string: 7

Enter page frame size: 3

Enter [1]:1

Enter [2]: 3

Enter (3) , 0

Enly (4): 3

Enter (5) : 5

Enter [6] 2:6

Enter (1): 3

1-71

3 ->13

0 -> 130

3 -> No page fault Potal page fauts: 6

5-7 530

6-2560

3-> 563

Result:

A program for finding the parge fault using FIFO replacement.