Ex. No.: 11a)
Date: 11 |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 25thiro.h).

define Max 100.

int main () f.

int main () f.

int n, fram \$17p ninjit;

int page fault =0 > pointer =0. bound;

printf ("Enter the \$120 of refunce \$tring:");

\$carf (" 7.d", & n);

for (i=0; icn; ir+)/

printf ("Enter page frame sige:");

\$ant (" 7.d", & frame sige:");

\$ant (" 7.d", & frame sige:");

\$ant (" 2.d", & frame sige);

for (i=0; ic frame size:");

\$ant (" x d", & frame sige);

for (i=0; ichter size;");

```
prame [i]=-1;
  for (i=0; i=n; i++){
       found =0;
     for (j=0; j = promesize; j++)4
            il (frames [i] = = rysts [i] /
                  found = 1;
                 buak;
          Y
        if (! bound) h
              pramer [pointer ] = refstr[i];
              pointin: (pointer +1)% from 8121;
              page fault ++;
              print (" 7.0 ->" , ry strciss;
                 bor (K=0, K / Jecmo bizzi; x++)h
                      if (panes CKJ! =-1)
                           plint p(" "d ", reams (U);
                          print, ("-");
                       mint F("\n");
                       y du
   MINH ("i-a -> No page Foult (n", refer [i]);
print r ("Intotal page Faulti", ", d \n", page boult);
return 0;
```

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 -> 7 0 1
2 -> 2 0 1
0 -> No Page Fault
3 -> 2 3 1
0 -> 230
4 -> 430
2 -> 420
3 -> 423
0 -> 023
3 -> No Page Fault
2 -> No Page Fault
1 -> 0 1 3
2 -> 0 1 2
0
✓ No Page Fault
1 -> No Page Fault
7 -> 7 1 2
```

0 -> 7 0 2

1 -> 701

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

Result:

The FIFO page replacement successfully implemented. olgorithm has been