Ex. No.: 11a) Date: 1214125

: ("n") - having

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 (stolio h)
int moun ()
   int substring [50], frames [10], n, framesize;
   int i,j, k, pgf=0, index=0, found,
    prints ("Enter the size of superence string: ");
   scant (" % d", & m);
   for (i=0; i < n; i++) }
         print (" Enter [ % 201]: ", i+1):
        s cant ("%od", & nof-string [i]);
    3
    prints ("Enter page frame size:");
    Scanb ("% d', & framesize);
   for ( 1=0; 1 < for am esize; 1++)
      fromerij=-17
          at. Day : Ellino-65 9, 1 Lodor (1) 3 21/19
```

```
printf ("In");
for (i=o; ikn; i+t) {
    found =0;
      for (j=0; j< framesize; j++) {
         if (frame []] = = nebstrang[i]) {
                found =1;
                break;
      if (itomod) {
         frames [index] = 9 efstring[i];
         index = (index +1) 7. f-sourcesize;
      3 Paftt;
      printf ("%d >", notString[i]);
      if (!found)?
         for (k=0; kx framesize; k+1) f
             1 F ( promes [k] ( = -1)
  proint("%d", freames[k]);
        3 elses
           printf ("No Page Fault \n");
  printf ("In Total page faults: 1.d. In", pgf);
  retwono;
```

```
Sample Output:
 Entor size of reference string: 12
 Enter [1]:
 Enter[2]:
  Ento [3]: 3
  Enter [4]:
  Ento [2]:
  Enter [6]:
  Enter[7]:
   Enter [8]:
   Enter[9]:
   Enter[10]:
    Enten [II]:
    ENDATEJ:
 Enter page frame size 33
  1 & No Page Fourt
2 -> No Page Fault
  3 > 5 32
  4-534
  5 -> No Page Fautt
Total Page faults 19.
                       66
```

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

&K.

Result:

Hence the page replacement algorithm is using fifo has been written and executed successfully.