Ex. No.: 11a) Date: 16 104 25

FIFO PAGE REPLACEMENT

Aim:

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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 (stdio , R > int main() 1 int frames, Rages, i, j, & , Roge -faults =0; fruit (" Enter no. of froms: "), scanf (") od", & frams); fruity ("Enter no. of Rayes: "); searf (" " bd", & frages); int incoming Chayes, lough [frames]; Brinth ("Enter page reference string: "), for (i=0; i' < Rays; i++) {

scanf ("0) od", & incoming (i)); forti=0; i < frams; i++)f amh [1] 2-1;

Printf (" In Page 1 & Frame 1 | & Frame 2 | & Frame 3 | & Page Faults 1 n"); for(i=o; ic Rages; i++) & int found = 6, Bos (j = 0; j c fearus; 0 ++) { if if limp (1) = = incoming [i] } if ! found) & temp [frage - faults % frames]= incoming [i]; frage-faults ++;
fruit; ("% d (+", incoming [i]); Bor (k = 0; k& frames; k++)& if clerch [h] =-1)
fruit ("90d (+", lengh [h]); By fronth (" I t "); frients (" of. d In ", found ", 6:1); fruit ("In dolat Page Faults: 1/0 1 n ", Prage-fruits); y return o;

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 page frame size: 3

7 -> 7 - -0 -> 7 0 -1 -> 7 0 1 2 -> 2 0 1 0 -> No Page Fault

Enter [19]: 0 Enter [20]: 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 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 -> 702

3 -> 231

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

Page	Frame 1	Franc 2	Frame B	Page Fault
1	1	_		1
2	1	2_		
3	1	2	-	•
4	4	2	3	1
1	4	2	3	1
2 5	4	,	3	1
5	5		2	1
1	5	1	2	1
2	5		2	0
3	5		2	8
4	-	3	2	1
5	5	3	4	1
Jotio		3	4	0

Total Page Fault : 9

Result:
Thus the fragram to find out the number of frage faults that
occur ruding First in First-Out (FIFO) frage replacement workings
has been exceeded succeefully.

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