Ex. No.: 11c)
Date: 23 /04/2025

Aim:

Optimal

To write a c program to implement Optimal page replacement algorithm.

ALGORITHM:

- 1. Start the process
- 2. Declare the size
- 3. Get the number of pages to be inserted
- 4. Get the value
- 5. Declare counter and stack
- 6. Select the least frequently used page by counter value
- 7. Stack them according the selection.
- 8. Display the values
- 9. Stop the process

PROGRAM:

widness of this how object the property of the product court pages to just frames to just in n, wit indeed, introducity of the summer of the product court is a continuity; in the second of the sec

int man () 5 int Ray [MAX], frams [MAX]; int n, capacity, fault =0, hit =0) ant i, ork, filles = 6; fruit ("Enter the no. of Regio: "); scanf (" " tot", 8 n), fruit ("Enter the son of reference string: "); sand for (i=0; o' = n; i++ JE scanf ("% od", & pages [i]), fruit (" Enter the no. of frames: ") scarf (" " od", & sapacity); for (i=0; ic coprails; i++){ frams [i]; 3 forti=o; icn; i+Jf int found =0; for (j=0; j'capacity;) 115 if (frams [] 3 = = Rayso [i]) \$

found = 1;

Ret + +; & break ; of (! fam) E of (filled = capacity) 5 farames [felled ++] = Rages [i] else f int pos = frudict (fages, frams, n / 1, capacity); frames [Ros] = pages [i]; faults ++; fruit (" " lod" , Rages (i) for (R=0; & a capacity; R++)& if C frames [A] = -1 x frame [A]); 3 else & hairly ("."); Smith (" Dotal Rage faults: " d In " faults); fruits ("Fotal Ray Auto; " od In " Rit) return of

Output:

Ponter the no. of Reyes: 12

Enter the reference string: 130 3 5 6 3 0 6 4 17

Enter the no. of frame: 3

1:13:130:120
3:130
5:530
6:560
3:563
6:603
4:604
1:104
7:174

Jold Rage Reet: 9

Folal Rage Reet: = 3

Result:

Thus, oftenal page replacement algorithms is implemental and executed successfully.

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