Ex. No.: 11c)
Date: 77 | 4 | 85

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:

include 2 stdio . h)

wit main 1)

2 unit \$, p , falso], pa[80], temp[10], \$1, \$2, \$3,

1, 3, \$, pos , max , faults =0;

point [" Enter no of frames");

stant [" 7. d", & f);

paint [" Enter the no of payes");

stant [" 1. d", &p);

paint [" Enter the reference stery");

for [1=0;1" 2 p ; 1+4)73

Secant [" 1. d", & pali);

for (i=0: 12 v :1++) ₹ fali?=-1; for (i=0;12p;i++) & flag 1 = 12 =0; for (j=0; j/fiste) if (fa(i) = = pa(i)) ٩ إ = {2=1; break; 4 (1= =0) 2 for 15-0:32 (: 5++) & y (fa[1]==-1)

{ faults ++; fa[j] = pa[i]; 12 = 1; break if [f2 = 20)

for [j=0;] < j; j++) 2 levep(1)=-1; for (k=1+1; k<p; k++)

if (fa fj) == pa[+7) for 12=0, 13×ml, 12+ of if (temp []) ==-1) & bez=7! 13=1; bleak; if (13==0) 2 maa = temp (0); pos =0; for (5=1; 3=1; 3++) & if [temp[i] > man) & man = temp (i); (105 = j. fauls (pos] 74 pa(i);

point f (" (n");

for li-co; 3 2 f : 1 + 4)

& point ("1.d (+", fa (i)); puint ["InIn = 1.0", fauts); vieturo;



Output:

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2 3 4 2 1 3 7 5 4 3

2-1-1

2 3-1

2 3 4

2 3 .4

! 3 4

1 3 9

534

5 3 4

5 3 4

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Result:

Thus the wode for optimal page replacement algorithm is executed successfully.

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