**LRU PAGE REPLACEMENT ALGORITHM**

#include<stdio.h>

int main()

{  printf("\nVishakha Sable");

    printf("\nRoll No.:51");20

int i, j , k, min, rs[25], m[10], count[10], flag[25], n, f, pf=0, next=1;

printf("Enter the length of reference string -- ");

scanf("%d",&n);

printf("Enter the reference string -- ");

for(i=0;i<n;i++)

{scanf("%d",&rs[i]);

flag[i]=0;

} printf("Enter the number of frames -- ");

scanf("%d",&f);

for(i=0;i<f;i++)

{ count[i]=0;

m[i]=-1;

} printf("\nThe Page Replacement process is -- \n");

for(i=0;i<n;i++)

{ for(j=0;j<f;j++)

{ if(m[j]==rs[i])

{ flag[i]=1;

count[j]=next;

next++;

}}

if(flag[i]==0){

if(i<f){

m[i]=rs[i];

count[i]=next;

next++;}

else{

min=0;

for(j=1;j<f;j++)

if(count[min] > count[j]) min=j; m[min]=rs[i]; count[min]=next;next++;} pf++;

} for(j=0;j<f;j++)

printf("%d\t", m[j]);

if(flag[i]==0)

printf("PF No. -- %d" , pf);

printf("\n");

} printf("\nThe number of page faults using LRU are %d",pf);

}

