**7. Write a C program to illustrate the page replacement method where the current least recently used element is replaced and determine the number of page faults for the following test case:**

**No. of page frames: 3; Page reference sequence 1,2,3,2,1,5,2,1,6,2,5,6,3, 1,3,6,1,2,4 and 3.**

Program:

#include<stdio.h>

int main()

{

int i,f,l=0,n,h=0,y=1,j,k,t=0,x=1;

printf("Enter the number of frames :");

scanf("%d",&f);

int f1[f];

printf("\nEnter the size of array ");

scanf("%d",&n);

int a[]={1,2,3,2,1,5,2,1,6,2,5,6,3,1,3,6,1,2,4,3};

int g[n];

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

{

g[i] = a[i];

}

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

{

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

{

if(f1[i]==g[i])

{

y=y\*0;

}

}

if(y==0)

{

h=h+1;

}

else

{

t=t+1;

y=1;

for(k=i;k>=0;k--)

{

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

{

if(g[k]==f1[j])

{

l=l+1;

if(l==3)

{

x=j;

}

}

}

}

}

f1[x]=a[i];

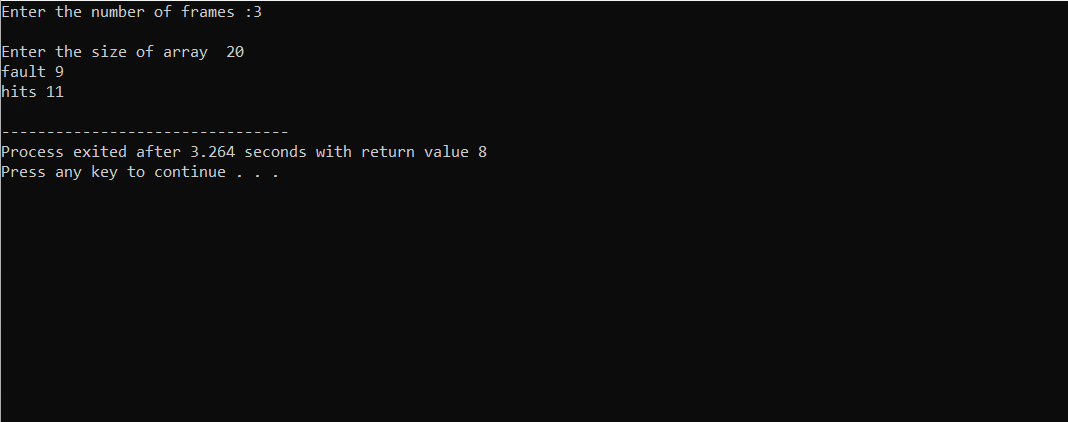
}

printf("fault %d\n",h);

printf("hits %d\n",t);

}

Output:

****