ROLL NO:27

```
#include<stdio.h>
int fr[3], n, m;
void display();
void main()
int i,j,page[20],fs[10]; int
max,found=0,lg[3],index,k,l,flag1=0,flag2=0,pf=0; float
printf("Enter length of the reference string: ");
scanf("%d",&n); printf("Enter the reference
string: ");
for(i=0;i<n;i++)
scanf("%d",&page[i]);
printf("Enter no of frames: ");
scanf("%d",&m);
for(i=0;i \le m;i++) fr[i]=-1;
pf=m;
for(j=0; j < n; j++)
{ flag1=0; flag2=0;
       for(i=0;i<m;i++)
               if(fr[i]==page[j])
               { flag1=1; flag2=1;
                       break;
               }
if(flag1==0) {
for(i=0;i<m;i++) {
if(fr[i]==-1)
fr[i]=page[j]; flag2=1;
break; }}} if(flag2==0)
{ for(i=0;i<m;i++)
\lg[i]=0;
for(i=0;i<m;i++) {
for(k=j+1;k \le n;k++) {
if(fr[i]==page[k]) {
\lg[i]=k
-j;
break; }}}
found=0;
for(i=0;i<m;i++) {
```

```
if(lg[i]==0) {
index=i; found = 1;
break; } }
if(found==0) {
\max=\lg[0]; index=0;
for(i=0;i<m;i++)
if(max<lg[i])
\{ \max=\lg[i]; 
index=i;
fr[index]=page[j];
pf++; }
display();
}
printf("Number of page faults: %d\n", pf); pr=(float)pf/n*100;
printf("Page fault rate = \%f \n", pr);
void display()
int i; for(i=0;i<m;i++) printf("%d\t",fr[i]);
printf("\n");
OUTPUT:
pvg-aids-ml@pvgaidsml-HP-ProDesk-400-G4-SFF:~/Desktop/harshada02$ gcc
pract 6b.c -o pract 6b
pvg-aids-ml@pvgaidsml-HP-ProDesk-400-G4-SFF:~/Desktop/harshada02$ ./pract 6b
Enter the length of reference string -- 5
Enter the reference string -- 3
2
1
4
Enter the number of frames -- 4
The Page Replacement process is --
                             PF No. -- 1
3
       -1
              -1
                      -1
                             PF No. -- 2
3
       2
              -1
                      -1
3
                             PF No. -- 3
       2
              1
                      -1
3
       2
                             PF No. -- 4
              1
                      4
                             PF No. -- 5
0
       2
              1
                      4
```

The number of page faults using LRU are 5