```
Code:
#include<stdio.h>
int findLRU(int time[],int n){
       int i, minimum=time[0],pos=0;
               for(i=1;i<n;i++){
               if(time[i]<minimum){</pre>
                      minimum=time[i];
                      pos=1;
               }
       }
       return pos;
}
int main(){
int no of frames, no of pages, frames [10], pages[30], counter = 0, time[10], flag1, flag2, i, j, pos, faults = 0;
       printf("Enter number of frames: ");
       scanf("%d", &no_of_frames);
       printf("Enter number of pages: ");
       scanf("%d",&no_of_pages);
       printf("Enter reference string: ");
       for(i = 0;i < no_of_pages;++i)</pre>
       {
               scanf("%d",&pages[i]);
       }
```

for(i = 0;i < no_of_frames;++i)</pre>

{

frames[i]=-1;

```
}
for(i = 0;i < no_of_pages;++i)</pre>
{
        flag1 = flag2 = 0;
        for(j = 0;j < no_of_frames;++j)</pre>
        {
                if(frames[j] == pages[i])
                {
                        counter++;
                        time[j] = counter;
                        flag1 = flag2 = 1;
                        break;
                }
        }
        if(flag1 == 0)
        {
                for(j = 0;j < no_of_frames;++j)</pre>
                        if(frames[j] == -1)
                        {
                                counter++;
                                faults++;
                                frames[j] = pages[i];
                                time[j] = counter;
                                flag2 = 1;
                                break;
                        }
```

```
}
               }
               if(flag2 == 0)
               {
                       pos = findLRU(time, no_of_frames);
                       counter++;
                       faults++;
                       frames[pos] = pages[i];
                       time[pos] = counter;
               }
                       printf("\n");
               for(j = 0;j < no_of_frames;j++)</pre>
               {
                       printf("%d\t",frames[j]);
               }
       }
       printf("\n\nTotal page faults = %d", faults);
       return 0;
}
```

Output: