Practical – 9: To implement Page Replacement algorithm for First In First Out.

```
#include <stdio.h>
#include <conio.h>
// BE20F05F062 Akash Shridharan
void main()
{
    int n, i, a[50], no, frame[10], k, j, avail, cnt = 0;
    float pr;
    printf("\nEnter number of pages:");
    scanf("%d", &n);
    printf("\nEnter page numbers:");
    for (i = 1; i <= n; i++)
        scanf("%d", &a[i]);
    printf("\nEnter number of frames:");
    scanf("%d", &no);
    for (i = 0; i < no; i++)
        frame[i] = -1;
    j = 0;
    printf("  Referntial String\t\t  Page frames\n");
    for (i = 1; i <= n; i++)
    {
        printf("\t%d\t", a[i]);
        avail = 0;
        for (k = 0; k < no; k++)
            if (frame[k] == a[i])
                avail = 1;
        if (avail == 0)
        {
            frame[j] = a[i];
            j = (j + 1) % no;
            cnt++;
            for (k = 0; k < no; k++)
                printf("\t %d\t", frame[k]);
```

```
        }
        printf("\n ");
    }
    printf("\nPage fault=%d", cnt);
    pr = (float)cnt / (float)n;
    printf("\nPage Rate=%f", pr);
}
```

OUTPUT:

Enter number of pages:6

Enter page numbers:5 8 6 5 6 5

Enter number of frames:3

Referntial String		Page frames	
5	5	-1	-1
8	5	8	-1
6	5	8	6
5	5	8	6
6	5	8	6
5	5	8	6

Page fault=3

Page Rate=0.500000