

# Output:

## 1. FIFO (First In First out) page replacement algorithm:

```
"D:\Assignment && Lab\four" X + v
ENTER THE NUMBER OF PAGES:
11
ENTER THE PAGE NUMBER :
1 2 2 1 0 3 1 2 4 1 0
ENTER THE NUMBER OF FRAMES :3
ref string      page frames
1               1      -1      -1
2               1      2      -1
2
1
0               1      2      0
3               3      2      0
1               3      1      0
2               3      1      2
4               4      1      2
1
0               4      0      2
Page Fault Is 8
Page Hit Is 3
Process returned 0 (0x0)   execution time : 19.379 s
Press any key to continue.
```

## 2. LRU (Least Recently Used) page replacement algorithm:

```
"D:\Assignment && Lab\four" X + v
Enter number of frames: 3
Enter number of pages: 11
Enter reference string: 1 2 2 1 0 3 1 2 4 1 0
ref string      page frames
1               -1      -1
1               2      -1
1               2      -1
1               2      -1
1               2      0
1               3      0
1               3      0
1               3      2
1               4      2
1               4      2
1               4      0
Total Page Faults = 7
Total Page Hit = 4
```

### 3. Optimal page replacement algorithm:

```
"D:\Assignment && Lab\four" × + v
Enter the total no pages: 11
Enter the sequence:1 2 2 1 0 3 1 2 4 1 0

Enter frame size:3

page 1 frame 1 -1 -1
page 2 frame 1 2 -1
page 2 frame 1 2 -1
page 1 frame 1 2 -1
page 0 frame 1 2 0
page 3 frame 1 2 3
page 1 frame 1 2 3
page 2 frame 1 2 3
page 4 frame 1 2 4
page 1 frame 1 2 4
page 0 frame 1 2 0
Total number of faults=6

Total number of Hit=5
```

## Conclusion:

Hence, the objectives of the lab were successfully implemented.