OPERATING SYSTEM - CS23431 EXP 11(B)

LRU PAGE REPLACEMENT

NAME: Dhanvin PR **ROLL NO:** PROGRAM: 230701071 #include <stdio.h> int main() { int n,frame_size,count=0,page_faults=0; printf("Enter size of reference string: "); scanf("%d",&n); int page[n]; for(int i=0;i<n;i++) printf("Enter [%d]: ",i+1); scanf("%d",&page[i]); } printf("Enter page frame size: "); scanf("%d",&frame_size); int mem[frame_size]; for (int i = 0; i < n; i++) { int top = -1; int f=0: for (int j = 0; j < count; j++) { if (mem[i] == page[i]) { top = j; break; } } printf("%d -> ", page[i]); if (top!=-1) { for(int j=0;j<count-1;j++)</pre> mem[j]=mem[j+1];

mem[count-1]=page[i];

```
printf("No page fault\n");
    }
     else
       f=1;
       if(count<frame_size)</pre>
          mem[count++]=page[i];
       else
         for(int j=0;j<frame_size;j++)</pre>
             mem[j]=mem[j+1];
          mem[frame_size-1]=page[i];
       page_faults++;
     }
    if(f)
    for (int j = 0; j < count; j++) {
       printf("%d ", mem[j]);
     }
     printf("\n");
  }
  printf("\nTotal Page Faults: %d\n", page_faults);
  return 0;
}
```

OUTPUT:

```
Enter size of reference string: 6
Enter [1]: 5
Enter [2]: 7
Enter [3]: 5
Enter [4]: 6
Enter [5]: 7
Enter [6]: 3
Enter page frame size: 3
5 -> 5
7 -> 5 7
5 -> No page fault
6 -> 7 5 6
7 -> No page fault
3 -> 6 7 3
Total Page Faults: 4
```