OPERATING SYSTEM - CS23431

EXP 11(B)

LRU PAGE REPLACEMENT

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PROGRAM:

```
#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[j] == page[i]) {
top = j;
break;
}
printf("%d -> ", page[i]);
if (top!=-1) {
for(int j=0;j<count-1;j++)
```

```
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++) {
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
```