OPERATING SYSTEM - CS23431

EXP 11(A)

FIFO PAGE REPLACEMENT

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PROGRAM:

```
#include <stdio.h>
int main() {
int n,frame size,front=0,count=0,page faults=0;
printf("Enter size of reference string: ");
scanf("%d",&n);
int pages[n];
for(int i=0;i<n;i++)
printf("Enter [%d]: ",i+1);
scanf("%d",&pages[i]);
printf("Enter page frame size: ");
scanf("%d",&frame size);
int mem[frame size];
for (int i = 0; i < n; i++) {
int found = 0;
for (int j = 0; j < count; j++) {
if (mem[j] == pages[i]) {
found = 1;
break;
}
printf("%d -> ", pages[i]);
int f=1;
if (!found) {
if (count < frame_size) {</pre>
```

```
mem[count++] = pages[i];
} else {
mem[front] = pages[i];
front = (front + 1) % frame_size;
page_faults++;
}
else
f=0;
printf("No Page Fault ");
}
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: 7
Enter [1]: 7
Enter [2]: 0
Enter [3]: 1
Enter [4]: 2
Enter [5]: 0
Enter [6]: 3
Enter [7]: 0
Enter page frame size: 3
7 -> 7
0 -> 7 0
1 -> 7 0 1
2 -> 2 0 1
0 -> No Page Fault
3 -> 2 3 1
0 -> 2 3 0
Total Page Faults: 6
```