## 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) {
            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:**