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ROLL NO.: 33310
CLASS: TE11
BATCH: L11
CODE:
#include <stdio.h>
#include <stdbool.h>
bool isPresent(int frame[], int n){
  for(int i=0; i<3; i++){
     if(frame[i]==n){
       return true;
  return false;
}
void display(int frame[]){
  for(int i=2;i>=0;i--){
     if(frame[i] == -1){
       printf(" ");
     }else{
       printf("%d ", frame[i]);
}
void main(){
  int sequence [] = \{7, 0, 1, 2, 0, 3, 0, 4, 2, 3, 0, 3, 2, 3\}; // given reference string
  int frame [4] = \{-1, -1, -1, -1\}; // frame - to store the reference string in frame
                      // to count the page fault
  int count = 0:
  int least index = 0; // to store the least used index
  for(int i=0; i<14; i++){
     // checking if i > frame size i.e. 2(given) for checking frame is full or not
       // following checking if the element is ready present in frame or not. If present then don't
push anything.
       if(isPresent(frame, sequence[i])){
          printf("%d -> ", sequence[i]);
          display(frame);
          printf(" HIT\n");
       }else{
          // if element is not present the at least index of frame replace the element
          // logic for Least used index
     }else{
       // if frame is not full directly push the reference string element to frame(frame)
       frame[i] = sequence[i];
                                      // pushing reference string element in frame
       // following code is for printing: reference string element -> frame elements MISS/HIT
```

```
printf("%d -> ", sequence[i]);
    display(frame);
    printf(" MISS\n");
    count++; // increasing the page fault number;
}
}
printf("\nTotal number of page fault = %d\n", count);
```

## **OUTPUT:**

```
7 -> 7 MISS
0 -> 0 7 MISS
1 -> 1 0 7 MISS
0 -> 1 0 7 HIT
0 -> 1 0 7 HIT
0 -> 1 0 7 HIT
```