```
package ass7;
import java.util.Scanner;

public class ass7 {


  public static void main(String args[]) {
   Scanner sc = new Scanner(System.in);
   int noofpages, capacity, index = 0;
   int hit = 0, fault = 0;
   double faultRatio, hitRatio;
   System.out.print("Enter the number of pages you want to enter: ");
   noofpages = sc.nextInt();
   int pages[] = new int[noofpages];

   for (int i = 0; i < noofpages; i++) {
    pages[i] = sc.nextInt();
   }
   System.out.print("Enter the capacity of frame: ");
   capacity = sc.nextInt();
   int frame[] = new int[capacity];
   int table[][] = new int[noofpages][capacity];

   for (int i = 0; i < capacity; i++) {
    frame[i] = -1;
   }
   System.out.println("\n---------------------------------------------------------------------");
   for (int i = 0; i < noofpages; i++) {
    int search = -1;
    for (int j = 0; j < capacity; j++) {
     if (frame[j] == pages[i]) {
      search = j;
      hit++;
      System.out.printf("%4s", "H");
      break;
     }
    }
    if (search == -1) {
     frame[index] = pages[i];
     fault++;
     System.out.printf("%4s", "F");
     index++;
     if (index == capacity) {
      index = 0;
     }
    }
    System.arraycopy(frame, 0, table[i], 0, capacity);
   }
   System.out.println("\n---------------------------------------------------------------------");
   for (int i = 0; i < capacity; i++) {
    for (int j = 0; j < noofpages; j++)
     System.out.printf("%3d ", table[j][i]);
    System.out.println();
   }
```

```
  System.out.println("---------------------------------------------------------------------");
  faultRatio = ((double) fault / noofpages) * 100;
  hitRatio = ((double) hit / noofpages) * 100;
  System.out.println("Page Fault: " + fault + "\nPage Hit: " + hit);
  System.out.printf("Hit Ratio:%.2f \nFault Ratio:%.2f ", hitRatio, faultRatio);
  sc.close();
 }

}
```