```
Program:
import java.util.*;
public class FIFO {
             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++) {</pre>
                             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++){</pre>
                             frame[i]=-1;
                     }
                     System.out.println("\n-----");
```

for(int i=0;i<noofpages;i++){</pre>

int search=-1;

for(int j = 0; j < capacity; j++)</pre>

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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("-----");
```

{

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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);
}
```

OUTPUT: -

Enter the number of pages you want to enter: 13 $7\,0\,1\,2\,0\,3\,0\,4\,2\,3\,0\,3\,2$

Enter the capacity of frame: 4

F F F F H F H F H H F H H

Page Fault: 7 Page Hit: 6 Hit Ratio:46.15 Fault Ratio:53.85