

```
1  /**
2   A PROGRAM TO IMPLEMENT A STACK.
3   */
4   //SUCHIT TE XII A
5   public class stack
6   {
7       int top;
8       int stk[]=new int[100];
9       int max;
10      stack(int size)
11      {
12          max = size;
13          top = -1;
14      }
15      void insert(int item)
16      {
17          if(top == max-1)
18          {
19              System.out.println("STACK IS FULL");
20          }
21          else
22          {
23              top++;
24              stk[top]=item;
25          }
26      }
27      void delete()
28      {
29          if(top == -1)
30          {
31              System.out.println("STACK IS EMPTY");
32          }
33          else
34          {
35              System.out.println("THE ITEM DELETED IS : "+stk[top]);
36              top--;
37          }
38      }
39      void display()
40      {
41          if(top == -1)
42          {
43              System.out.println("STACK IS EMPTY");
44          }
45          else
46          {
47              System.out.println("THE ELEMENTS OF THE STACK ARE : ");
48              for(int i = 0 ; i<=top ; i++)
49              {
50                  System.out.print(stk[i]+" ");
51              }
52          }
53      }
54  }
```

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