```java
/**
   A PROGRAM TO IMPLEMENT A STACK.
 */
//SUCHIT TE XII A
public class stack
{
    int top;
    int stk[]=new int[100];
    int max;
    stack(int size)
    {
        max = size;
        top = -1;
    }
    void insert(int item)
    {
        if(top == max-1)
        {
            System.out.println("STACK IS FULL");
        }
        else
        {
            top++;
            stk[top]=item;
        }
    }
    void delete()
    {
        if(top == -1)
        {
            System.out.println("STACK IS EMPTY");
        }
        else
        {
            System.out.println("THE ITEM DELETED IS : "+stk[top]);
            top--;
        }
    }
    void display()
    {
        if(top == -1)
        {
            System.out.println("STACK IS EMPTY");
        }
        else
        {
            System.out.println("THE ELEMENTS OF THE STACK ARE : ");
            for(int i = 0 ; i<=top ; i++)
            {
                System.out.print(stk[i]+" ");
            }
        }
    }
}
```

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