package Com.lession4.Stack;

public class Stack {

static final int MAX=1000;

int top;

int a[]=new int[MAX];

Stack() {

top = -1;

}

public boolean isEmpty() {

return (top < 0);

}

boolean push(int x) {

if (top >= (MAX - 1)) {

System.out.println("Stack Overflow");

return false;

} else {

a[++top] = x;

System.out.println(x + " pushed into stack");

return true;

}

}

int pop() {

if (top < 0) {

System.out.println("Stack Underflow");

return 0;

} else {

int x = a[top--];

return x;

}

}

public static void main(String[] args) {

Stack stack = new Stack();

System.out.println("before "+stack.isEmpty());

stack.pop();

boolean isAdded = stack.push(100);

System.out.println("Is added "+isAdded);

stack.push(400);

stack.push(800);

stack.push(350);

stack.push(1100);

System.out.println("Deleted ");

System.out.println(stack.pop());

System.out.println("after "+stack.isEmpty());

}

}