package com.greatlearning.stack;

class StackImplementation {

static final int Size\_of\_stack = 1000;

int current\_pointer ;

int a[] = new int[Size\_of\_stack]; // Maximum size of Stack

StackImplementation()

{

current\_pointer = -1;

}

boolean push(int x)

{

if (current\_pointer >= (Size\_of\_stack - 1)) {

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

return false;

}

else {

a[++current\_pointer ] = x;

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

return true;

}

}

int pop()

{

if (current\_pointer < 0) {

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

return 0;

}

else {

int x = a[current\_pointer --];

return x;

}

}

void printStack(){

for(int i = current\_pointer ;i>-1;i--){

System.out.print(" "+ a[i]);

}

}

}

// Driver code

class Main {

public static void main(String args[])

{

StackImplementation s = new StackImplementation();

s.push(2);

s.push(45);

s.push(65);

s.push(21);

System.out.println(s.pop() + " Popped from stack");

System.out.print("Elements present in stack :");

s.printStack();

}

}