**DATA STRUCTURES AND ALGORITHMS**   **LAB ASSIGNMENT-8**

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COURSE – AIDE

SECTION - “A”

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Q - Implement push pop operation on stack and write a Java program for that.

CODE:

import java.util.Scanner;

import java.util.Stack;

public class StackOperations {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

Stack<Integer> stack = new Stack<>();

while (true) {

System.out.println("Enter 1 to push, 2 to pop, and 0 to exit");

int choice = scanner.nextInt();

if (choice == 0) {

break;

} else if (choice == 1) {

System.out.print("Enter a number to push: ");

int number = scanner.nextInt();

stack.push(number);

} else if (choice == 2) {

if (stack.isEmpty()) {

System.out.println("Stack is empty");

} else {

int poppedNumber = stack.pop();

System.out.println("Popped number: " + poppedNumber);

}

}

}

scanner.close();

}

}

OUTPUT:

