**Pre-Placement Assessment [WEEK-2]**

Implementation of stack data structure.

Que1:

import java.io.\*;

import java.util.\*;

class Test

{

// pushing element on the top of the stack

static void stack\_push(Stack<Integer> stack)

{

for(int i = 0; i < 5; i++)

{

stack.push(i);

}

}

// popping element from the top of the stack

static void stack\_pop(Stack<Integer> stack)

{

System.out.println("Pop Operation:");

for(int i = 0; i < 5; i++)

{

Integer y = (Integer) stack.pop();

System.out.println(y);

}

}

// Displaying element on the top of the stack

static void stack\_peek(Stack<Integer> stack)

{

Integer element = (Integer) stack.peek();

System.out.println("Element on stack top: " + element);

}

// Searching element in the stack

static void stack\_search(Stack<Integer> stack, int element)

{

Integer pos = (Integer) stack.search(element);

if(pos == -1)

System.out.println("Element not found");

else

System.out.println("Element is found at position: " + pos);

}

public static void main (String[] args)

{

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

stack\_push(stack);

stack\_pop(stack);

stack\_push(stack);

stack\_peek(stack);

stack\_search(stack, 2);

stack\_search(stack, 6);

}

}