**Phase 1 Practice Project – Assisted Practice**

**8 . Write a program in java to insert and remove elements in a stack.**

**Source Code:**

**package** slm3;

**import** java.util.Stack;

**public** **class** StackExample {

**public** **static** **void** main(String[] args) {

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

// Insert elements into the stack (push)

stack.push(1);

stack.push(2);

stack.push(3);

stack.push(4);

System.***out***.println("Stack after inserting elements: " + stack);

// Remove elements from the stack (pop)

**int** poppedElement = stack.pop();

System.***out***.println("Popped element: " + poppedElement);

System.***out***.println("Stack after removing an element: " + stack);

// Get the top element without removing it (peek)

**int** topElement = stack.peek();

System.***out***.println("Top element without removing: " + topElement);

}

}

**Output:**

