**Test3**

**1.**

class Stack {

constructor() {

this.items = [];

}

push(element) {

this.items.push(element);

}

pop() {

if (this.isEmpty()) {

return "Stack is empty";

}

return this.items.pop();

}

isEmpty() {

return this.items.length === 0;

}

}

const stack = new Stack();

console.log(stack.isEmpty());

stack.push("element1");

stack.push("element2");

stack.push("element3");

console.log(stack.pop());

Output: "element3"

console.log(stack.pop());

Output: "element2"

console.log(stack.isEmpty());

Output: false

console.log(stack.pop());

Output: "element1"

console.log(stack.pop());

Output: "Stack is empty"

2.

class Queue {

constructor() {

this.items = [];

}

enqueue(element) {

this.items.push(element);

}

dequeue() {

if (this.isEmpty()) {

return "Queue is empty";

}

return this.items.shift();

}

isEmpty() {

return this.items.length === 0;

}

}

const queue = new Queue();

console.log(queue.isEmpty());

Output: true

queue.enqueue("element1");

queue.enqueue("element2");

queue.enqueue("element3");

console.log(queue.dequeue());

Output: "element1"

console.log(queue.dequeue());

Output: "element2"

console.log(queue.isEmpty());

Output: false

console.log(queue.dequeue());

Output: "element3"

console.log(queue.dequeue());

Output: "Queue is empty"