

# Error Handling and Prototypes quiz

1. What is the purpose of using try-catch block in programming?

- ☐ To handle exceptions that occur during program execution
- ☐ To prevent errors from occurring in the program
- ☐ To terminate the program in case of an error
- ☐ To optimize the performance of the program

2. In which section of a try-catch block is the code that may throw an exception placed?

- ☐ try
- ☐ catch
- ☐ finally
- ☐ both try and catch

3. Which of the following statements is true about try-catch blocks?

- ☐ A try block must always be followed by a catch block
- ☐ A catch block must always be followed by a finally block
- ☐ A finally block is optional
- ☐ A try block can only contain one catch block

4. Which of the following is the correct syntax for a try-catch block in Javascript?

- ☐

```
try {  
  // code that may throw an exception  
} catch (Exception e) {  
  // code to handle the exception  
}
```
- ☐

```
try (  
  // code that may throw an exception  
) catch {  
  // code to handle the exception  
}
```
- ☐

```
try {  
  // code that may throw an exception  
} finally {  
  // code to execute regardless of whether an exception occurs or not  
}
```
- ☐

```
try {  
  // code that may throw an exception  
} except {  
  // code to handle the exception  
}
```

5. What is the purpose of using getters and setters in JavaScript?

- ☐ To access and modify private properties of an object
- ☐ To create new properties in an object
- ☐ To delete existing properties from an object
- ☐ None of the above

6. Which of the following is the correct syntax for a getter in JavaScript?

- ☐ `get myProperty() { return this.myProperty; }`
- ☐ `set myProperty() { return this.myProperty; }`
- ☐ `get myProperty() { this.myProperty; }`
- ☐ `set myProperty() { this.myProperty; }`

7. Which of the following is the correct syntax for a setter in JavaScript?

- ☐ `get myProperty() { return this.myProperty; }`
- ☐ `set myProperty(value) { this.myProperty = value; }`
- ☐ `myProperty() { return this.myProperty; }`
- ☐ `myProperty(value) { this.myProperty = value; }`

8. Which of the following is an advantage of using getters and setters in JavaScript?

- ☐ They allow for encapsulation and data hiding
- ☐ They improve performance of the program
- ☐ They allow for more flexible syntax in the program
- ☐ They prevent errors from occurring in the program

9. Which keyword is used to create a constructor function in a class in JavaScript?

- ☐ constructor
- ☐ class
- ☐ this
- ☐ new

10. Which of the following is the correct syntax for creating a parameterized constructor in a class in JavaScript?

- ☐ `constructor { }`
- ☐ `constructor()`
- ☐ `constructor(args) { }`
- ☐ `constructor(args = []) { }`

11. Which of the following is the correct way to define a method inside a class in JavaScript?

- ☐ `myMethod() { }`
- ☐ `function myMethod() { }`
- ☐ `class myMethod() { }`
- ☐ `this.myMethod() { }`

12. Which of the following is the correct way to create a static method in a class in JavaScript?

- ☐ `static myMethod() { }`
- ☐ `function static myMethod() { }`
- ☐ `class myMethod() { static }`
- ☐ `this.myMethod() { static }`

13. Which of the following is the correct way to access a static method of a class in JavaScript?

- ☐ `MyClass.myMethod();`
- ☐ `obj.myMethod();`
- ☐ `this.myMethod();`
- ☐ `new MyClass().myMethod();`

14. What is a prototype in JavaScript?

- ☐ It is a function that creates new objects
- ☐ It is an object that is used as a template for creating other objects
- ☐ It is a method for accessing private properties of an object
- ☐ None of the above

15. Which of the following is the correct syntax for accessing the prototype of an object in JavaScript?

- ☐ `obj.prototype`
- ☐ `obj.__proto__`
- ☐ `obj.getPrototype()`
- ☐ `obj.setPrototype()`

16. Which of the following is the correct way to create a new object using a prototype in JavaScript?

- ☐ `var newObj = Object.prototype;`
- ☐ `var newObj = Object.create(myPrototype);`
- ☐ `var newObj = myPrototype.new();`
- ☐ `var newObj = myPrototype.create();`

17. Which of the following is an advantage of using prototypes in JavaScript?

- ☐ They allow for easy inheritance and sharing of properties and methods among objects
- ☐ They improve performance of the program
- ☐ They allow for more flexible syntax in the program
- ☐ They prevent errors from occurring in the program

18. Which of the following is the correct way to add a new method to the prototype of an object in JavaScript?

- ☐ `obj.prototype.newMethod = function() { }`
- ☐ `obj.__proto__.newMethod = function() { }`
- ☐ `obj.getPrototype().newMethod = function() { }`
- ☐ `obj.setPrototype().newMethod = function() { }`

19. What is a closure in JavaScript?

- ☐ It is a function that returns another function
- ☐ It is a way of hiding variables and functions from the global scope
- ☐ It is an inner function that has access to the outer function's variables and parameters
- ☐ None of the above

20. Which of the following is an example of a closure in JavaScript?

- ☐ `function add(x, y) { return x + y; }`
- ☐ `function outer() { var x = 10; return function inner() { return x; } }`
- ☐ `function printName(name) { console.log("Hello " + name); }`
- ☐ `function multiply(x, y) { return x * y; }`

21. Which of the following is the correct way to create a closure in JavaScript?

- ☐ Declare an inner function inside an outer function and return it
- ☐ Declare an inner function inside an outer function without returning it
- ☐ Declare a function outside of any other function
- ☐ Declare a function with the same name as another function

22. Which of the following is an advantage of using closures in JavaScript?

- ☐ They allow for encapsulation and data hiding
- ☐ They improve performance of the program
- ☐ They allow for more flexible syntax in the program
- ☐ They prevent errors from occurring in the program

23. Which of the following is an example of using closures for private data in JavaScript?

- ☐ `function add(x, y) { return x + y; }`
- ☐ `function counter() { var count = 0; return function() { count++; return count; } }`
- ☐ `function printName(name) { console.log("Hello " + name); }`
- ☐ `function multiply(x, y) { return x * y; }`

24. Which of the following is the correct way to access a getter or setter in JavaScript?

- ☐ `obj.myProperty;`
- ☐ `obj.get.myProperty();`
- ☐ `obj.get.myProperty;`
- ☐ `obj.set.myProperty();`

25. What is a common use case for closures in JavaScript?

- ☐ Creating private variables and functions.
- ☐ Accessing global variables from within functions.
- ☐ Creating new objects based on existing objects.
- ☐ Executing functions in parallel.