

# **Fullstack Development Milestone Test 1**

## Round 1

1.Which of the following is not JavaScript Data Types? (Easy)
A. Undefined B. Number C. Boolean D. Float (Correct)
2. Which of the following is incorrect about features of JavaScript? (Easy)
<ul><li>A. JavaScript is case insensitive. (Correct)</li><li>B. JavaScript is an object-based scripting language.</li><li>C. JavaScript is a scripting language and it is not java.</li><li>D. All of the above</li></ul>
3. What will be the output of the below code snippet? (Medium) var string1 = "Letsfindcourse"; var intvalue = 30; alert( string1 + intvalue );
A. Letsfindcourse 30 B. 30 C. Letsfindcourse30 (Correct) D. Exception
4. Which one of the following is a ternary operator in JavaScript? (Medium)
A. # B. :: C. &: D. ?: (Correct)
5. What does javascript use instead of == and !=? (Medium)
<ul> <li>A. It uses bitwise checking</li> <li>B. It uses === and !== instead (Correct)</li> <li>C. It uses equals() and notequals() instead</li> </ul>

D. It uses equalto()

D. error



6. Which of the following is not the looping structures in JavaScript? (Easy)
A. for B. while C. forwhich (Correct) D. dowhile
7. What are the different types of data types in JavaScript? (Easy)
A. Primitive B. Reference types. C. All of the above (Correct) D. None of the above
8. Which keyword is used to find the type of a JavaScript variable? (Medium)
A. typeof (Correct) B. type C. var D. None of the above
9. The below statement is an example of: (Medium) while (3==3) {}
A typographical error  B. An infinite loop (Correct)  C. An illegal JavaScript statement  D. None of the above
10. What will be the output of the below code? (Medium)
console.log( typeof( '5' + 5))
A. number B. string (Correct) C. object D. null
11. What will be the output of the below code snippet? (Medium) let x=0; for(x;x<10;x++); console.log(x); A. 0 B. 9 C. 10 (Correct)



12. What are the trivial data types in JavaScript? (Medium) A. null B. undefined C. Both A and B (Correct) D. None of the above 13. JavaScript is untyped language. (Medium) A. True (Correct) B. False 14. Which of the following are reserved words in JavaScript? (Medium) A. enum B. long C. finally D. All of the above (Correct) 15. What is the output of the below snippet? (Difficult) let i = 0; let j = '0'; console.log(i===j); A. true B. undefined C. false (Correct) D. none of the above 16. What is the output of the below snippet? (Difficult) let i = 0; let j = '0'; console.log(i==j); A. false B. undefined C. true(Correct) D. none of the above 17. What is the output for below code? (Medium) var x = 10;y = --x + 1;

alert(y);



```
A. 10 (Correct)
B. 11
C. Error
D. 0
18. Which keyword is used to stop the execution inside the switch block? (Medium)
A. Switch
B. break (Correct)
C. case
D. exit
19. What will be the output of the below code snippet? (Difficult)
 var a = 10;
  do {
      a += 1;
      console.log(a);
  \} while (a < 5);
A. 11121314
B. 112
C. 1234
D. 11 (Correct)
20. Which of the following statements are true? (Medium)
A.
       Switch cases use strict comparison (===).
       The values must be of the same type to match.
В.
C.
       A strict comparison can only be true if the operands are of the same type.
       All of the Above (Correct)
D.
21. What will be the output of the below code snippet? (Difficult)
 var a = 0;
 var b = 0;
    while (a < 3)
  {
      a ++;
      b += a;
      console.log(b);
  }
```

A.

В.

error

undefined (Correct)



```
A. 135 (Correct)
B. 123
C. 013
D. 01
22. Which type of loop is best known for its Boolean condition that controls entry to the loop? (Medium)
A. do-while loop
B. for (traditional)
C. for-each
D. while (Correct)
23. What will this code log in the console? (Easy)
   function sayhello(){
   console.log('hello');
    console.log(sayhello());
A.
       undefined
В.
       hello (Correct)
       an object with a constructor property
C.
D.
       an error message
24. When would you use a conditional statement? (Medium)
A.
       When you want to reuse a set of statements multiple times.
       When you want your code to choose between multiple options. (Correct)
B.
C.
       When you want to group data together.
D.
       When you want to loop through a group of statement.
25. Which statement is the correct way to create a variable called rate and assign it the value 100? (Easy)
       let rate = 100; (Correct)
A.
В.
       let 100 = rate;
C.
       100 = let rate;
D.
       rate = 100;
26. What is the result in the console of running this code? (Difficult)
     console.log(program);
     var program = "Javascript";
```



- C. null
- D. Javascript
- 27. What is the result in the console of running this code? (Difficult)

```
console.log(program);
const program = "Javascript";
```

- A. error (Correct)
- B. undefined
- C. null
- D. Javascript
- 28. What will this code print? (Difficult)

```
var v =1;
var f1 = function () {
  console.log(v);
};

var f2 = function () {
  var v = 2;
  f1();
};
```

- A. 2
- B. 1 (Correct)
- C. Error
- D. Undefined
- 29. What type of scope does the end variable have in the code shown? (Medium)

```
var start = 1;
if (start == 1) {
let end = 2;
}
```

- A. conditional
- B. block (Correct)
- C. globe
- D. function



30. What is the result in the console of running this code? (Difficult)

```
const program = "Javascript";
      program = "JAVA";
      console.log(program);
E.
       error (Correct)
F.
       undefined
G.
       JAVA
Н.
       Javascript
31. What is the output of the below code snippet? (Difficult)
sum(10,20);
diff(10,20);
function sum(x,y){
return x + y;
}
let diff = function(x,y) {
return x -y;
};
       30, ReferenceError, 30, -10
A.
В.
       30, ReferenceError (Correct)
C.
       30, -10
       ReferenceError, -10
D.
32. What is the result in the console of running this code? (Difficult)
     console.log(program);
     let program = "Javascript";
A.
       error (Correct)
       undefined
В.
C.
       null
D.
       Javascript
33. What will the value of y be in this code? (Difficult)
const x = 6 \% 2;
const y =x ? 'One': 'Two';
```



A. One Undefined В. C. True D. Two (Correct) 34. What is the result in the console of running this code? (Difficult) { let program = "Javascript"; } console.log(program); error (Correct) A. undefined В. C. null Javascript D. 35. What is the result of running this statement? (Easy) console.log(typeof(42)); 'float' A. 'value' В. C. 'number' (Correct) 'integer' D. 36. Which statement is used to skip iteration of the loop? (Medium) break A. В. pass C. skip continue (Correct) D. 37. What are the different types of scope in JavaScript? (Medium) Block scope A. В. Function scope C. Global scope All of the above (Correct) D. 38. Local Variables are destroyed after execution of function. (Easy) True (Correct) A.

В.

False



- 39. Variables declared with the var keyword can NOT have block scope. (Medium)
- A. True (Correct)
- B. False
- 40. What of the following are true about local variables? (Easy)
- A. only recognized inside their functions
- B. variables with the same name can be used in different functions.
- C. created when a function starts, and deleted when the function is completed.
- D. All of the above (Correct)



#### Round - 2

#### 1. Factorial of N

#### **Problem Statement**

Raghu is a school student. In the math's class the teacher asks us to find the factorial of a given number n. write a program to find the factorial of given number n.

#### **Constraint**

Input should be a number

#### **Explanation:**

Factorial of 5 is 5 x 4 x 3 x 2 x 1 = 120 Factorial of 3 is 3 x 2 x 1 = 6

#### **Input Format**

Input should be a number

### **Output Format**

Factorial of a given number in integer

### **Sample Input 1:**

5

### output:

120

# Sample Input 2:

3

### output:

6

# **Sample Input 3:**

8

## output:

40320

# Sample Input 4:

10



### output:

3628800

# **Sample Input 5:**

12

### output:

479001600

# **Template:**

```
let inp = readline();
function factorial (n) {
      let fact = 1;
      // use process.stdout.write("hello") to print the output
      //implement your logic here - you dont have to return anything, print the output here
      return fact;
}
console.log(factorial(parseInt(inp)));
Solution:
let inp = readline();
function factorial (n) {
      let fact = 1;
      for (let i = n; i > 0; i--) {
              fact *= i;
      }
      return fact;
}
```

IdeOne link - https://www.ideone.com/tPvdRL

console.log(factorial(parseInt(inp)));



# 2. Algebra

### **Problem Statement**

Ram is a school student and he has to solve the formula

(a + b)2 is equal to a2 + 2ab + b2 for given number a and b. Write a program to help ram to find the solution for the given formula

### Constraint

a and b should be number not a string (a + b)2 = a2 + 2ab + b2

### **Input Format**

a and b are integers

### **Output Format**

(a+b)2

# **Sample Input 1:**

2 2

### output:

16

### **Sample Input 2:**

93

# output:

144

# **Sample Input 3:**

1 1

# output:

64

# Sample Input 4:



```
98
```

#### output:

289

### **Sample Input 5:**

10 10

### output:

400

# **Template:**

# **Solution:**

```
let inp = readline().split(' ');
function algebra (a, b) {
    let a_ = a * a;
    let b_ = b * b;
    let ab = a * b;
    return (a_ + (2 * ab) + b_);
}
console.log(algebra(parseInt(inp[0]), parseInt(inp[1])));
```

IDEOne link - https://www.ideone.com/60k2wu