1. What will be the output of running following code?

console.log(Number(null));

0

console.log(Number(undefined));

NaN

console.log(Boolean("0"));

true

console.log(Boolean(" "))

true

2. What will be the output of running following code?

let a = b = 2;

let c = 3 - (a + b + 1);

console.log(a--);

2

console.log(++c);

-1

console.log(a);

1

console.log(c);

-1

3. What is the significance of + operator before prompt function in following code?

let a = +prompt("First number?");

Any user input is string data type even if the user enters numbers so the significance of +operator is to convert the user input data type from string to Number

4. What is the use of || and && operators (logical-or and logical-and) in JavaScript? Explain with an example of each.

Logical-or || return true if either of two variables is true or false if both variables are false it returns false

//Eg.

let educationLevel = "Masters";

let experienceyear = 0;

let salary;

if (educationLevel == "Masters" || experienceyear > 2) {

salary = 100000;

} else {

salary = 80000;

}

console.log(salary);

//In this case salary will be 100000 because one condition is true

Logical-and && return true only if both variables are true, otherwise it returns false

//Eg

if (educationLevel == "Masters" && experienceyear > 2) {

salary = 100000;

} else {

salary = 80000;

}

console.log(salary);

// In this case salary will be 80000 because only one condition is false

5. Which of the following statements is true?

a. In computer programming, a statement can be part of an expression.

b. In computer programming, an expression can be a part of a statement.

b is true statement an expression can be part of a statement because expression can be one component of statement.