# **Self-check quiz**

**1. What data type is the following variable?**

const c = "5";

**Answer:**

string

**2. What data type is the following variable?**

const c = 91;

**Answer:**

Integer

**3. Which one is generally better, line 1 or line 2?**

let empty1 = undefined; //line 1

let empty2 = null; //line 2

**Answer:**

Line 2

**4. What is the console output for the following?**

let a = "Hello";

a = "world";

console.log(a);

**Answer:**

Line 2

**5. What will be logged to the console?**

let a = "world";

let b = `Hello ${a}!`;

console.log(b);

**Answer:**

Hello *address\_Of\_a*!

**6. What is the value of a?**

let a = "Hello";

a = prompt("world");

console.log(a);

**Answer:**

The value which is entered by the user.

**7. What is the value of b output to the console?**

let a = 5;

let b = 70;

let c = "5";

b++;

console.log(b);

**Output:**

71

**8. What is the value of result?**

let result = 3 + 4 \* 2 / 8;

**Answer:**

4 *(as there is no floating oint value in operation of result)*

**9. What is the value of total and total2?**

let firstNum = 5;

let secondNum = 10;

firstNum++;

secondNum--;

let total = ++firstNum + secondNum;

console.log(total);

let total2 = 500 + 100 / 5 + total--;

console.log(total2);

**Output:**

16

536

**Descriptive Answer:**

Line#1: firstNum = 5

Line#2: secondNum = 10

Line#3: firstNum = 6, as increment operator is used

Line#4: secondNum = 9, as decrement operator is used

Line#5: total = 16

As firstNum is pre-incremented and add into secondNum, 7 + 9

Line#6: *Printing of (total)* 16

Line#7: total2 = 536

As precedence of divide(/) is greatest, that’s why 100/2 is performed

Then 500+20+16 = 536, which is then store in total2.

Then value of total is decremented as post decrement is used.

Line#6: *Printing of (total2)* 536

*NOTE: value of total is decremented to 15 at line#7*

**10. What is logged to the console here?**

const a = 5;

const b = 10;

console.log(a > 0 && b > 0);

console.log(a == 5 && b == 4);

console.log(true ||false);

console.log(a == 3 || b == 10);

console.log(a == 3 || b == 7);

**Answer:**

true

false

true

true

false