FSD - Assignment – 2

Q1. [1 Point] Explain the difference between null and undefined in JavaScript.

Q2. [1 Point] What will be the output of the following code snippet, and why?

```
console.log('10' + 5);
console.log('10' - 5);
console.log(true + 2);
console.log(false + undefined);
```
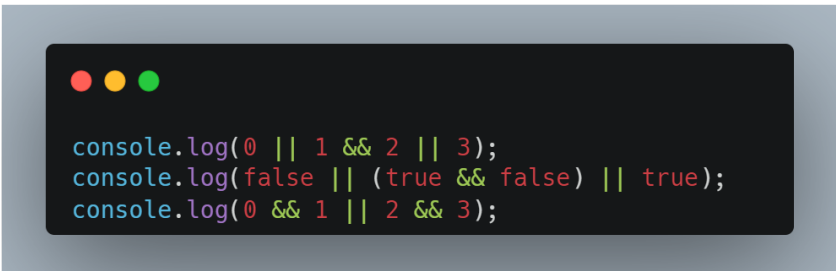
Q3. [1 Point] What is the difference between == and === in JavaScript? Provide examples.

Q4. [1 Point] Predict the output of the following expressions and explain your reasoning:
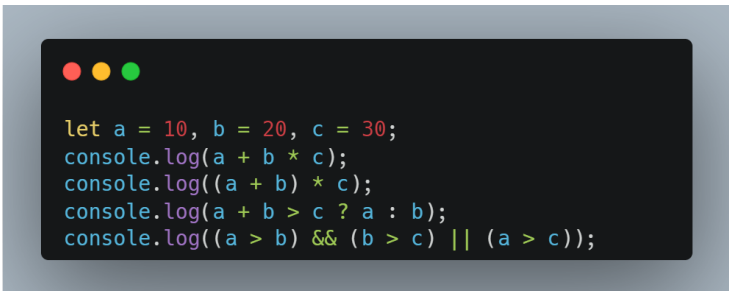
```
console.log(0 == false);
console.log(0 === false);
console.log('' == 0);
console.log('' === 0);
```

Q5. [1 Point] Given the following code, what will be the output and why?

```
console.log(0 || 1 && 2 || 3);
console.log(false || (true && false) || true);
console.log(0 && 1 || 2 && 3);
```

Q6. [1 Point] Predict the output of the following expressions and explain your reasoning:

```
let a = 10, b = 20, c = 30;
console.log(a + b * c);
console.log((a + b) * c);
console.log(a + b > c ? a : b);
console.log((a > b) && (b > c) || (a > c));
```

Q7. **[2 Points]** Analyze and explain the output of the following code snippets:

```
console.log([] + {});
console.log({} + []);
console.log([] == ![]);
console.log('' == []);
```

Q8. **[2 Points]** What will be the output of the following code, and why?

```
console.log(+"");
console.log(+true);
console.log(+false);
console.log(+null);
console.log(+undefined);
```