**Pure Functions VS Impure Functions with examples.**

1: **Pure functions** must fulfil the following criteria:

* they must be predictable
* they must have no side effects…

A side-effect is any operation our function performs that is not related to computing the final output, including :

* Modifying a global variable
* Modifying an argument
* Making HTTP requests

2: **Impure** **function** is kind of the opposite of a pure one - it doesn't predictably produce the same result given the same inputs when called multiple times, and may cause side-effects

**Example of Pure function:**

// PURE FUNCTION

const pureAdd = (num1, num2) => {

return num1 + num2;

};

//always returns same result given same inputs

**Example of Impure function:**

let plsMutateMe = 0;

const impureAdd = (num) => {

return (plsMutateMe += num);

};

//returns different result given same inputs