

**script.js**

```
1  /*
2
3  8. Define the Pure function in JavaScript, which provided a suitable example of comparing pure and
4  impure functions.
5
6  Ans: A pure function is a function that:
7
8  Given the same input, always produces the same output.
9
10 Does not cause any side effects (e.g., modifying global variables, performing I/O operations, or mutating its arguments).
11
12 Pure functions are predictable and easier to test because their behavior is entirely determined by their input values.
13
14 */
15
16 console.clear();
17
18 console.log("Pure and Impure Functions: ");
19
20 function addPure(a, b) {
21
22     return a + b;
23 }
24
25 console.log(addPure(2, 3));
26
27 let total = 0;
28
29 function addImpure(a) {
30
31     total += a;
32
33     return total;
34 }
35
36 console.log(addImpure(2));
```

37

38 console.log(addImpure(3));