**Task 2:**

1. **Write a write up on difference between copy by value and copy by reference.**

|  |  |
| --- | --- |
| **Call by value** | **Call by reference** |
| Here original value is not modified. | Here original value is modified. |
| A copy of variable is passed. | A variable itself is passed. |
| Actual and formal arguments will be created in different memory locations. | Actual and formal arguments will be created in the same memory location. |
| Here variables are passed using a straightforward method. | Here pointers are required to store the address of variables. |

1. **How to copy by value a composite data type?**

There are 3 ways to copy by value for composite data types:

* Using the spread (...) operator.
* Using the Object.assign() method.
* Using JSON.stringify() and JSON.parse() methods.