**TASK – 2**

**Q2: Difference between call by value and call by references**

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| **Call by value** | **Call by references** |
| In JavaScript, all primitive data types such as Boolean, number, string null & undefined are call by vales | In JavaScript, the Object data types such as Functions and Objects are call by references. |
| The original variable is not modified on changes in other variables | The original variable gets modified on changes in other variables |
| Actual and copied variables will be created in different memory locations | Actual and copied variables are created in the same memory location |
| On passing variables in a function, any changes made in the passed variable will not affect the original one. | On passing variables in a function, any changes made in passed parameter will update the original variables reference too. |
| **Example:**  **Input:**  var a = 5;      var b;      b = a;      a = 3;      console.log(a);      console.log(b);  **Output:**  3  5 | **Example:**  **Input:**    var c = { greeting : 'Welcome' };      var d;      d = c;      c.greeting = 'Welcome to GUVI';      console.log(c);      console.log(d);  **Output:**  {greeting : “Welcome to GUVI”}  {greeting : “Welcome to GUVI”} |