**Task 3:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Source code instruction | Register(s) modified | Value in the modified register(s) | Memory location(s) modified. | Value in modified memory location(s) |
| add $t1, $0, 16 |  |  |  |  |
| sw $t1, 0x10000000($0) |  |  |  |  |
| lw $t2, 0x10000000($0) |  |  |  |  |
| sub $t0, $t2, 1 |  |  |  |  |

Table 1

**Task 4:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Source code instruction | Register(s) modified | Value in the modified register(s) | Memory location(s) modified. | Value in modified memory location(s) |
| add $t1, $0, 0x7f6b2684 |  |  |  |  |
| sw $t1, 0x10000000($0) |  |  |  |  |
| lb $t2, 0x10000002($0) |  |  |  |  |
| sub $t0, $t2, 2 |  |  |  |  |

Table 2

**Question 1:** Comparing row 3 of Table 1 and Table 2, does register $t2 gets same or different values? Explain the reason for your answer.

**Answer:**

**Task 5:**

**Question:** Explain the reason why Task5 terminates with error. Also, suggest a correction by rewriting the program below.

**Answer:**