

TASK 4

Tests have been written for Caesar cipher program using Ruby Unit Tests.

```
tests.rb
1  # frozen_string_literal: true
2
3  require 'test/unit'
4  require_relative 'caesar_cipher'
5
6  # Class for testing Caesar class
7  class TestCaesar < Test::Unit::TestCase
8    def test_one_word_input_shift1
9      shift = 1
10     phrase = 'hello'
11     caesar = Caesar.new(shift)
12
13     assert_equal('ifmmp', caesar.encrypt(phrase))
14   end
15
16   def test_one_word_input_shift15
17     shift = 15
18     phrase = 'hello'
19     caesar = Caesar.new(shift)
20
21     assert_equal('wtaad', caesar.encrypt(phrase))
22   end
23
24   def test_one_word_input_shift30
25     shift = 30
26     phrase = 'hello'
27     caesar = Caesar.new(shift)
28
29     assert_equal('lipps', caesar.encrypt(phrase))
30   end
31
32   def test_multiple_word_input_shift1
33     shift = 1
34     phrase = 'take thy beak from out my heart'
35     caesar = Caesar.new(shift)
36
37     assert_equal('ublf uiz cfbl gspn pvu nz ifbsu', caesar.encrypt(phrase))
38   end
39
```

Figure 1 - Testing class 1

```

39
40   def test_multiple_word_input_shift10
41     shift = 10
42     phrase = 'take thy beak from out my heart'
43     caesar = Caesar.new(shift)
44
45     assert_equal('dkuo dri loku pbyw yed wi rokbd', caesar.encrypt(phrase
46   end
47
48   def test_multiple_word_input_shift28
49     shift = 28
50     phrase = 'take thy beak from out my heart'
51     caesar = Caesar.new(shift)
52
53     assert_equal('vcmg vja dgcm htqo qwv oa jgctv', caesar.encrypt(phrase
54   end
55 end
56

```

Figure 2 - Testing class 2

All the test cases provided in Figure 1 and Figure 2 have passed successfully.

```

[Running] ruby "/home/bunbun/Projects/ruby/caesar_cipher_w_classes/tests.rb"
Loaded suite /home/bunbun/Projects/ruby/caesar_cipher_w_classes/tests
Started
.....
Finished in 0.002863847 seconds.
-----
6 tests, 6 assertions, 0 failures, 0 errors, 0 pendings, 0 omissions, 0 notifications
100% passed
-----
2095.08 tests/s, 2095.08 assertions/s

```

Figure 3 - Test results