## I.T 7 Static and dynamic testing exercise:

**Screenshot showing static testing (comments)** 

## Screenshot 2: Showing tests failing due to unnecessary 'end' keyword on line 25:

```
require('minitest/autorun')
require('minitest/rg')
require_relative('../testing_task_2')
require_relative('../card')

class TestCardGame < MiniTest::Test

def setup

@card1 = Card.new(spades, 1)
    @card2 = Card.new(hearts, 10)
end

def test_check_for_ace
    assert_equal(true, check_for_ace(@card1))
end

end

end
</pre>
```

```
require_relative('card.rb')
class CardGame
 def checkforAce(card)
   if card.value = 1
     return true
     return false
 dif highest_card(card1 card2)
 if card1.value > card2.value
   return card.name
   card2
 end
def self.cards_total(cards)
 total
  for card in cards
   total += card.value
   return "You have a total of" + total
```

```
cd: no such file or directory: specs

| specs git:(master) × ruby card_game_spec.rb
| card_game_spec.rb:3iin `require_relative': /Users/user/codeclan_work/PDA/PDA_Static_and_Dynamic_Task_A/testing_task_2.rb:25: syntax error, unexpected in the relative of the relative of
```

## **Screenshot 3: Tests written:**

```
require_relative('card.rb')
class CardGame

def checkforAce(card)
    if card.value = 1
        return true
    else
        return false
    end
end

dif highest_card(card1 card2)
    if card1.value > card2.value
        return card.name
    else
        card2
    end
end

def self.cards_total(cards)
    total
    for card in cards
        total += card.value
        return "You have a total of" + total
    end
end
```

## **Tests Failing:**

```
from card_game_spec.rb:3:in `<main>'

| ***specs git:(master) ** ruby card_game_spec.rb
| /Users/user/codeclan_work/PDA/PDA_Static_and_Dynamic_Task_A/testing_task_2.rb:18:in `<class:CardGame>': undefined local variable of Game:Class (NameError)
| from /Users/user/codeclan_work/PDA/PDA_Static_and_Dynamic_Task_A/testing_task_2.rb:7:in `<top (required)>'
| from card_game_spec.rb:3:in `require_relative'
| from card_game_spec.rb:3:in `<main>'
| ***specs git:(master) x**
```

```
Finished in 0.001442s, 2080.4439 runs/s, 0.0000 assertions/s.

1) Error:
TestCardGame#test_check_for_ace:
NoMethodError: undefined method `value=' for #<Card:0x007fed999e4f88 @suit="spades", @value=1>
Did you mean? value
    //Users/user/codeclan.work/PDA/PDA_Static_and_Dynamic_Task_A/testing_task_2.rb:11:in `check_for_ace'
    card_game_spec.rb:17:in `test_check_for_ace'

2) Error:
TestCardGame#test_highest_card:
NameError: undefined local variable or method `hearts' for #<TestCardGame:0x007fed999e4ab0>
    card_game_spec.rb:21:in `test_highest_card'

3) Error:
TestCardGame#test_self_cards_total:
NameError: undefined local variable or method `cards' for #<TestCardGame:0x007fed999e4588>
Did you mean? @card2
    @card1
    card_game_spec.rb:25:in `test_self_cards_total'

3 runs, 0 assertions, 0 failures, 3 errors, 0 skips

specs git:(master) x
```

Screenshots showing the tests, the tests passing and the updated methods:

```
require('minitest/autorun')
require('minitest/rg')
require_relative('../testing_task_2')
require_relative('../card')
class TestCardGame < MiniTest::Test</pre>
  def setup
    @card1 = Card.new("spades", 1)
    @card2 = Card.new("hearts", 10)
    @cardgame1 = CardGame.new()
  end
  def test_check_for_ace()
    assert_equal(true, @cardgame1.check_for_ace(@card1))
  end
  def test_highest_card()
    assert_equal("hearts", @cardgame1.highest_card(@card1, @card2))
  end
  def test_self_cards_total()
    cards = [@card1, @card2]
    assert_equal("You have a total of 11", CardGame.cards_total(cards))
  end
end
```

```
# Running:
...

Finished in 0.001060s, 2830.1886 runs/s, 2830.1886 assertions/s.

3 runs, 3 assertions, 0 failures, 0 errors, 0 skips

⇒ specs git:(master) ×
```

```
require_relative('card.rb')
class CardGame
 def check_for_ace(card)
    if card.value == 1
     return true
    else
      return false
    end
  end
 def highest_card(card1, card2)
    if card1.value > card2.value
      return card.suit
    else
     return card2.suit
    end
  end
  def self.cards_total(cards)
  total = 0
    for card in cards
     total += card.value
    end
    return "You have a total of " + total.to_s
  end
end
```