BBT … by **Ehsan Kourkchi**
Assignment #2 (author: Li, Jiajie)

How I checked the codes ...

I used a test code to test the classes through defining the objects and instantiating them. Then, based on the assignment requirements, the provided methods were checked for proper functioning. The test program is called “UnitTestAssignment2.java” and attached.

The Author of this code can revise the program to resolve the following problems

1) The `Segment` class does not have any default constructor which takes no argument

2) In the `Segment` class, the `move()` methods only works for vertical and horizontal segments. If the defined segment is inclined, the `move()` method does not work at all.

3) in `CreateSegments` class, the `printFour()` works very well, however the static `CreateSegments.unitTest()` does not meet the assignment requirements and it does not print anything.

4) The assignment required test-program which is called "`assignment2.java`" prints only zero.

```
ehsan@chortkeh:~/ICS/211/LabBBT> java assignment2
0.0
0.0
(0.0,0.0)
```

Test program results …...

```
ehsan@chortkeh:~/ICS/211/LabBBT> javac UnitTestAssignment2.java
ehsan@chortkeh:~/ICS/211/LabBBT> java UnitTestAssignment2

 ***************************

Default constructor (): (0.0,0.0)    OK
Constructor with (1.2, 4.5): (1.2,4.5)
Constructor with (3.5, 10.2): (3.5,10.2)

Testing toString()
  A = (1.2,4.5)    OK
  B = (3.5,10.2)    OK

Testing GetX()
  Ax = 1.2    OK
  Bx = 3.5    OK

Testing GetY()
  Ay = 4.5    OK
```

```
  By = 10.2    OK

Testing Distance: (expected ~ 6.146543744)
  A-B distance = 6.146543744251724    OK

Defining a segment ....
  NO Default constructor is provided ... ERROR

Defining the A-B segment ....
  A-B toString test: ((1.2,4.5)), ((3.5,10.2))
  A-B segment ... length(): 6.146543744251724    OK
  A-B segment ... left(): (1.2,4.5)    OK
  A-B segment ... right(): (3.5,10.2)    OK
  A-B segment ... upper(): (3.5,10.2)    OK
  A-B segment ... lower(): (1.2,4.5)    OK
  A-B segment ... isHorizontal(): false    OK
  A-B segment ... isVertical(): false    OK

  A-B segment ... move(0,0): ((1.2,4.5)), ((3.5,10.2))    ERROR

 ****************************
 ****************************

A Vertical Segment ....

  C = (1.0,2.0)
  D = (1.0,5.0)

Defining the C-D segment ....
  C-D toString test: ((1.0,2.0)), ((1.0,5.0))    OK
  C-D segment ... length(): 3.0    OK
  C-D segment ... left(): (1.0,5.0)    OK
  C-D segment ... right(): (1.0,2.0)    OK
  C-D segment ... upper(): (1.0,5.0)    OK
  C-D segment ... lower(): (1.0,2.0)    OK
  C-D segment ... isHorizontal(): false    OK
  C-D segment ... isVertical(): true    OK

  C-D segment ... move(0,0): ((0.0,0.0)), ((1.0,5.0))    OK
 ****************************
 ****************************

A Horizontal Segment ....

  E = (1.5,7.0)
  F = (5.5,7.0)

Defining the E-F segment ....
  E-F toString test: ((1.5,7.0)), ((5.5,7.0))    OK
  E-F segment ... length(): 4.0    OK
  E-F segment ... left(): (1.5,7.0)    OK
  E-F segment ... right(): (5.5,7.0)    OK
  E-F segment ... upper(): (1.5,7.0)    OK
  E-F segment ... lower(): (5.5,7.0)    OK
  E-F segment ... isHorizontal(): true    OK
  E-F segment ... isVertical(): false    OK
```

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```
  E-F segment ... move(0,0): ((0.0,0.0)), ((5.5,7.0))    OK
 ****************************


 ****************************
Testing CreateSegments.printFour() ....

((6.0,2.0)), ((3.0,4.0))    OK
((2.0,1.0)), ((5.0,0.0))    OK
((-1.0,2.0)), ((7.0,-3.0))    OK
((3.0,9.0)), ((1.0,8.0))    OK


 ****************************
Testing CreateSegments.unitTest() ....     ERROR (Nothing is displayed as the result)

   End of the test ...

ehsan@chortkeh:~/ICS/211/LabBBT>
```