Dwight S Coles III
CS1302

Operation	Purpose	Object State	Expected Result
eLine = new EditableTextLine("Dwight") eLine.toString()	Create a new editable text line containing the characters ("Dwight") Testing constructor and toString()	eLine = "Dwight"	 "Dwight"
   toString() length()	Testing Default eLine and length Testing toString() Testing length()	eLine = Dwight	 "Dwight" 6
String longString = "IMPORTANT: This is a larger project–you will have to dedicate a significant amount of time to it." eLine = new EditableTextLine(longString) capacity()	Creating a String variable that holds more character than the capacity Create a new editable text line containing the String (longString) Testing capacity() and that it increases when the length of the string is more the initial capacity	String longString eLine = longString	 160
String char80 = "This is 80 characters xxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxx"	Creating a string that holds exactly 80 characters Creating a new editable text line	String char80 eLine = char80	

eLine = new EditableTextLine(char80)	containing the String (char80)		
length()	Testing the length()		80
capacity()	Testing that capacity did not increase		80
Length()	Testing length for the default eLine	eLine = Dwight	6
Capacity()	Testing capacity for the default eLine	eLine = Dwight	80
IndexOf("Dw")	Testing indexOf() in the front of an eLine	eLine = Dwight Fragment = "Dw"	0
indexOf("wig")	Testing indexOf() in the middle of an eLine	eLine = Dwight Fragment = "wig"	1
indexOf("ht")	Testing indexOf() at the end of an eLine	eLine = Dwight Fragment = "ht"	4
IndexOf("abc")	Testing indexOf() with a fragment that is not in the text line	eLine = Dwight Fragment = "abc"	-1
indexOf("ig" , 0)	Testing indexOf() starting at the	eLine = Dwight Fragment = "ig" fromIndex = 0	2

	beginning of the textline		
indexOf("ig" , 3)	Testing indexOf with a fragment that isn't present at the given fromIndex	eLine = Dwight Fragment = "ig" fromIndex = 3	-1
indexOf("ig", -9)	Testing indexOf() with a negative index	eLine = Dwight Fragment = "ig" fromIndex = -9	TextLineIndexOut OfBoundsException That is caught
indexOf("ig", 90)	Testing indexOf() with an index larger than the capacity	eLine = Dwight Fragment = "ig" fromIndex = 90	TextLineIndexOut OfBoundsException That is caught
TextLine tLine = new TextLine("Dwight") eLine.equals(tLine)	Create a new text line containing the characters ("Dwight") Testing equals() by comparing eLine characters to tLine characters	tLine = "Dwight" eLine = "Dwight"	 true
TextLine tLine2 = new TextLine("Coles"); eLine.equals(tLine2)	Create a new text line containing the characters ("Coles") Testing equals() by comparing eLine characters to tLine2 characters	tLine2 = "Coles" eLine = "Dwight"	 false
		eLine = Dwight	

eLine.toString()	Testing toString() method		"Dwight"
eLine.append("Coles") eLine.toString()	Testing append() method Testing toString() and that the eLine is correct after append method	eLine = Dwight Fragment = "Coles"	 "DwightColes"
String longString = "IMPORTANT: This is a larger project–you will have to dedicate a significant amount of time to it." eLine.append(longString + longString + longString); eLine.capacity()	Creating a String variable that holds more character than the capacity Testing append() method with adding 3 times as much characters than the capacity Testing that the capacity increases when appending the longString	eLine = Dwight String longString	 "Dwight" + longString + longString + longString 320
eLine.insert(0, "Coles"); eLine.toString()	testing insert()command at the beginning of a text line Testing toString() and that the insert() command works correctly	eLine = Dwight Index = 0 Fragment = "Coles"	 "ColesDwight"

eLine = new EditableTextLine("ColesDwight")	Constructing a new editable text Line	eLine = "ColesDwight"	
eLine.insert(5, " , ")	Testing insert()command at the middle of a text line	Index = 5 Fragment = " , "	
eLine.toString()	Testing toString() and that the insert() command works correctly		"Coles , Dwight"
eLine = new EditableTextLine("Coles , Dwight")	Constructing a new editable text Line	eLine = "Coles , Dwight"	
eLine.insert(14 , ": is a student.")	testing insert()command at the end of a text line	index = 14 fragment = ": is a student."	
eLine.toString()	Testing toString() and that the insert() command works correctly		"Coles , Dwight: is a student."
		eLine = Dwight	
String longString = ": IMPORTANT: This is a larger project–you will have to dedicate a significant amount of time to it."	Creating a String variable that holds more character than the capacity	String longString	
eLine.insert(6, longString)	testing insert()command at the end of a text line with a longstring	index = 6 fragment = longString	
eLine.toString()	Testing toString() and that the insert() command		("Dwight" + longString)

eLine.capacity()	works correctly with a long string Testing that the capacity increases when inserting the longString		160
eLine.insert(-1000, "coles")	testing insert() with an illegal index	eLine = Dwight index = -1000 fragment = "coles"	TextLineIndexOut OfBoundsException That is caught
eLine.insert(100000, ": is a student.");	testing insert() with an illegal index	eLine = Dwight index = -1000 fragment = ": is a student"	TextLineIndexOut OfBoundsException That is caught
eLine.replace(0, 1, "1234") eLine.toString()	testing replace() at the beginning of the eLine Testing toString() and that the replace() command works correctly	eLine = Dwight start = 0 end = 1 fragment = "1234"	"1234ight"
eLine = new EditableTextLine("1234ight") eLine.replace(4, 5, " 5678 ") eLine.toString()	Constructing a new editable text Line testing replace() command at the middle of a text line Testing toString() and that the replace()	eLine = "1234ight" start = 4 end = 5 fragment = "5678"	"1234 5678 ht"

	command works correctly		
eLine = new EditableTextLine("1234 5678 ht")	Constructing a new editable text Line	eLine = ("1234 5678 ht"	
eLine.replace(10, 11, "9 10 11")	testing replace() command at the end of a text line	start = 10 end = 11 fragment = "9 10 11"	
eLine.toString()	Testing toString() and that the replace() command works correctly		"1234 5678 9 10 11"
		eLine = Dwight	
String longString = "IMPORTANT: This is a larger project–you will have to dedicate a significant amount of time to it."	Creating a String variable that holds more character than the capacity	String longString	
eLine.replace(0, 5, longString)	testing replace() command with a long string	start = 0 end = 5 fragment = longString	
eLine.toString()	Testing toString() and that the replace() command works correctly		longString
eLine.capacity()	Testing that the capacity increases when replacing the longString		160
		eLine = Dwight	
`eLine.replace(-5, 5, "123"`	testing replace() with an illegal start index	start = -5 end = 5	TextLineIndexOut OfBoundsException That is caught

		fragment = "123"	
`eLine.replace(0, 1000, "Dwight ")`	testing replace() with an illegal end index	eLine = Dwight start = 0 end = 1000 fragment = "Dwight"	TextLineIndexOut OfBoundsException That is caught