Test Case 1: testInstantiateConstructor()

Operation	Purpose	Object State:	Expected Result
EditableTextLine t1= new	To create an EditableTextLine	length=6;	EditableTextLine with user-
EditableTextLine("Julian");	using a user-supplied String		defined values
	value.	capacity=80	
t1.length();	To verify instantiation and		Length=6
	accessor method		
t1.capacity();	To verify the instantiation and		Capacity=80
	accessor method		

Test Case 2: testInstantiateAtCapacity()

Operation	Purpose	Object State:	Expected Result
EditableTextLine t1= new	To create an	Length=80	EditableTextLine with user-
EditableTextLine("computerscience+	EditableTextLine using a	Capacity=80	defined values
computerscience+	user-supplied String value		
computerscience+	the same size of default		Length=80
+computerscience	capacity.		
+computerscience			Capacity=80
+compu");			
	To verify instantiation and		
t1.length();	accessor method		
t1.capacity();	To verify the instantiation		
	and accessor method		

Test 3: testInstantiateAboveCapacity()

Operation	Purpose	Object State	Expected Result
EditableTextLine t1=new	To create an EditableTextLine	Length=90	EditableTextLine with user-
EditableTextLine("computerscience+ computerscience+	using a user-supplied String value greater than the size of the default capacity	Capacity=160	defined values
computerscience+			Length=90
computerscience+ computerscience");	To verify instantiation and		Capacity=160
t1.length();	accessor method		
t1.capacity();	To verify the instantiation and accessor method		

Test 4: testAppend()

Operation	Purpose	Object State	Expected Result
EditableTextLine t2 = new	To create an EditableTextLine	Length=18	An EditableTextLine with user-
EditableTextLine ("Julian");	using a user-supplied String		defined values
	value that has a length greater	Capacity=80	
	in value than the default		Length=18
	capacity		
			Capacity=80
t2.append(" is my name.");	To append a String fragment to		
	the EditableTextLine		
±2. In or mile ():	To consider the discontinuities and		
t2.length();	To verify the instantiation and		
	accessor method.		
t2.capacity();	To verify the instantiation and		
(2.capacity(),	accessor method.		
	decessor method.		

Test 5: testAppendAboveCapacity()

Operation	Purpose	Object State	Expected Result
EditableTextLine t = new	To create an EditableTextLine		An EditableTextLine with user-
EditableTextLine ("Julian");	using a user-supplied String	Length=90	defined values
	value that has a length greater		
	in value than the default	Capacity=160	
	capacity		
t1.append("is my name.	To append a String fragment to		Length=90
			Lengui-90
	· · ·		
,,	over capacity		Capacity=160
	· ·		
t1.length();	•		
	accessor method.		
t1 canacity():	To verify the instantiation and		
ti.capacity(),	•		
Hiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	the EditableTextLine String. Test append method that goes		

Test 6:testInsertBeginning()

Operation	Purpose	Object State	Expected Result
EditableTextLine t2 = new EditableTextLine (" is my name.");	To create an EditableTextLine using a user supplied String	String= "Julian is my name." Length=18	An EditableTextLine with user- defined values
t2.insert(0,"Julian");	To insert a String fragment to EditableTextString at the given index	Capacity=80	String= "Julian is my name." Length=18 Capacity=80
t2.toString();	To verify the instantiation of insert method to EditableTextLineString		capacity so
t2.length();	To verify the instantiation and accessor method.		
t2.capacity();	To verify the instantiation and accessor method.		

Test 7: testInsertEnd()

Operation	Purpose	Object State	Expected Result
EditableTextLine t2 = new	To create an EditableTextLine	String= "123456789"	An EditableTextLine with user-
EditableTextLine ("12345");	using a user supplied String		defined values
		Length=9	
		Capacity=80	String= "123456789"
	To insert a String fragment to		3 3 3 3 3 3 3 3 3 3
t2.insert(4,"6789");	EditableTextString at the given index		Length=9
			Capacity=80
t2.toString();	To verify the instantiation of insert method to EditableTextLineString		
t2.length();	To verify the instantiation and accessor method.		
t2.capacity();	To verify the instantiation and accessor method.		

Test 8: testInsertMiddle()

Operation	Purpose	Object State	Expected Result
EditableTextLine t2 = t2=new	To create an EditableTextLine	String= "123456789"	An EditableTextLine with user-
EditableTextLine("12346789");	using a user supplied String		defined values
		Length=9	
		Capacity=80	String= "123456789"
	To insert a String fragment to		
t2.insert(4,"5");	EditableTextString at the given		Length=9
	index		G
t2.toString();			Capacity=80
(2.to3ti11g(),	To verify the instantiation of		
	insert method to		
	EditableTextLineString		
t2.length();			
	To verify the instantiation and		
	accessor method.		
t2.capacity();	To constitute a final and a second		
tz.capacity(),	To verify the instantiation and accessor method.		
	accessor method.		

Test 9: testInsertAboveCapacity()

Operation	Purpose	Object State	Expected Result
EditableTextLine t1 = new	To create an EditableTextLine	String= "Juliannnnnnnnnnnn+	An EditableTextLine with
EditableTextLine ("Julian");	using a user-supplied String	Nnnnnnnnnnnnnnnnnn+	user- defined values.
	value that has a length of a	Nnnnnnnnnnnnnnnnnn+	
	greater value than the default	nnnnnnnnnnnnnnn+	
	capacity	nnnnnnnn");	
		length=95	Length = 95
t1.insert(5, "nnnnnnnnnnnnnnnnnn+			
nnnnnnnnnnnnnnnnnnnnnnnnnn+	To insert a String fragment to	capacity=160	Capacity = 160
nnnnnnnnnnnnnnnnnnnnnnnnn+	the EditableTextLine String.		
nnnnnnnnn");	Tests the expansion of capacity		
	with a fragment that goes over		
	the default capacity		
t1.toString();			
	To verify the instantiation of		
	insert method to		
	EditableTextLineString		
t1.length();			
	To verify the instantiation and		
	accessor method.		
t1 capacity():	To varify the instantiation and		
t1.capacity();	To verify the instantiation and accessor method.		

Test 10: testReplaceBeginning()

Operation		Object State	Even et ad Dogult
Operation	Purpose	Object State	Expected Result
EditableTextLine t1 = new	To create an EditableTextLine	String= "Hello"	An EditableTextLine with user-
EditableTextLine ("Hi friend!");	using a user supplied String		defined values.
		Length=5	
			String= "Hello"
		Capacity=80	
t1.replace(0,10, "Hello");	To replace a String fragment to		
	the EditableTextLine String at		Length = 5
	the given start index and end		
	index.		Capacity = 80
t1.toString();	To verify the instantiation of		
	the replace method to the		
	EditableTextLine String		
t1.length();	To verify the instantiation and		
3 6 (//	accessor method.		
	To verify the instantiation and		
t1.capacity();	accessor method.		

Test 11:testReplaceEnd()

Operation	Purpose	Object State	Expected Result
EditableTextLine t1 = new	To create an EditableTextLine	String= "Heyo"	An EditableTextLine with user-
EditableTextLine ("Hey!");	using a user supplied String		defined values.
		Length=4	
			String= "Hello"
		Capacity= 80	
t1.replace(3, 4, "o");	To verify the instantiation of		
	the replace method to the		Length = 5
	EditableTextLine String		
			Capacity = 80
t1.toString();	To verify the instantiation of		
	the replace method to the		
14.1	EditableTextLine String.		
t1.length();			
	To verify the instantiation and		
	accessor method.		
t1.capacity();	accessor method.		
tricupacity(),	To verify the instantiation and		
	accessor method.		
	accessor method.		

Test 12: testReplaceMiddle()

Operation	Purpose	Object State	Expected Result
EditableTextLine t1 = new	To create an EditableTextLine	String = "Hey friend!"	An EditableTextLine with user-
EditableTextLine ("Hey!");	using a user supplied String		defined values.
		Length= 11	
			String= "Hey friend!"
		Capacity=80	
t1.replace(3, 4, " friend	To verify the instantiation of		
!");	the replace method to the		Length = 11
	EditableTextLine String		
			Capacity = 80
t1.toString();			
	To verify the instantiation of		
	the replace method to the		
t1.length();	EditableTextLine String.		
	To verify the instantiation and		
t1.capacity();	accessor method.		
	To verify the instantiation and		
	accessor method.		

Test 13: testReplaceAboveCapacity()

Operation	Purpose	Object State	Expected Result
EditableTextLine t1 = new	To create an	String=" "Juliannnnnnnnnnn+	An EditableTextLine with user-
EditableTextLine ("Julian");	EditableTextLine using a	nnnnnnnnnnnnnnnnnn+	defined values.
	user supplied String	nnnnnnnnnnnnnnnnnnnn+	
		nnnnnnnnnnnnnnnn+	String= "Juliannnnnnnnnnnn+
		nnnnnnnn"	Nnnnnnnnnnnnnnnnnn+
			Nnnnnnnnnnnnnnnnnnn+
t1.replace(5,	To verify the instantiation		nnnnnnnnnnnnnnnn+
6,"nnnnnnnnnnnnnnnn+	of the replace method to		nnnnnnnn"
nnnnnnnnnnnnnnnnnnnnnnnnn+	the EditableTextLine		
nnnnnnnnnnnnnnnnnnnnnnnnnn	String		
nnnnnnnnn");			Length = 95
	To varify the instantiation		Canadity - 160
	To verify the instantiation of the replace method to		Capacity = 160
t1.toString();	the EditableTextLine		
t1.t03timg(),	String.		
	String.		
t1.length();	To verify the instantiation		
3- (//	and accessor method.		
	To verify the instantiation		
t1.capacity();	and accessor method.		

Test 14:testInsertIllegal()

Operation	Purpose	Object State	Expected Result
Орегилоп	i di pose	Object state	Expected Result
EditableTextLine t1 = new EditableTextLine	To create an EditableTextLine using a user-supplied String	String= "Computer"	An EditableTextLine with user-defined values.
("Computer");	value that has a length of a greater value than the	Length=8	TextLineIndexOutOfBounds
	current/default capacity of the EditableTextLine.	Capacity=80	Exception
t1.insert(-1, "Science");	To insert a String fragment to the EditableTextLine String at an illegal index value that is < 0.		TextLineIndexOutOfBounds Exception
t1.insert(100, "Science");	To insert a String fragment to the EditableTextLine String at an illegal index value at an index > length of the String.		

Test 15:testReplaceIllegal()

Operation	Purpose	Object State	Expected Result
EditableTextLine t1 = new	To create an EditableTextLine	String= "Computer"	An EditableTextLine with user-
EditableTextLine	using a user-supplied String		defined values.
("Computer");	value that has a length of a	Length=8	
	greater value than the		TextLineIndexOutOfBounds
	current/default capacity of the EditableTextLine.	Capacity=80	Exception
t1.replace(-1,100,"Science");	To replace a String fragment to the EditableTextLine String at an illegal index value at an index < 0.		TextLineIndexOutOfBounds Exception
t1.replace(0,100, "Science");	To replace a String fragment to the EditableTextLine String at an illegal index value at an index > 0.		

Test 16:testEqualsTrue

Operation	Purpose	Object State	Expected Result
EditableTextLine t1 = new	To create an EditableTextLine	Length=6	An EditableTextLine with user-
EditableTextLine ("Julian");	using a user supplied String	Capacity=80	defined values.
EditableTextLine t2 = new			
EditableTextLine ("Julian");			
		Length=6	
		Capacity=80	
t1.equals(t2);	To test equals method when it		True
	does equal		
			True
t2.equals(t1);	To test equals method when it		
	does equal		

Test 17:testEqualsFalse

Operation	Purpose	Object State	Expected Result
EditableTextLine t1= new	To create an EditableTextLine	Length=6	An EditableTextLine with user-
EditableTextLine ("Julian");	using a user supplied String	Capacity=80	defined values.
EditableTextLine t1= new EditableTextLine ("Juliann");		Length=7 Capacity=80	
t1.equals(t2)	To test equals method when it does equal		False False
t2.equals(t1)	To test equals method when it does equal		