MODULE TESTED:

1. Sodoku (int size)
2. SetPossibleValues(values)
3. SetCellValue(x,y,letter)

Test ID	Test Scenario	Test Case	Pre-Condition	Test Steps (Method)	User Input	Actual Result	Additional Comments	Status
TC_001	1. n^2 x n^2 grid is generated by Sudoku(n) 2. generated value set of size (n^2) 3. set value of an empty cell	valid size	integer size in range (1 to n^2)	Sodoku (size)	size=3	Returns True		PASS
		valid x value	integer x in range (1 to size^2)	SetPossibleValues(values)	**value**={1 to 9}	Returns True	no .of values are (size ^{2})	
		valid y value	integer y in range (1 to size^2)	SetCellValue(x,y,letter)	x=3 | y=4	Returns True	value of x,y are in range (1 , size ^{2})	
		valid letter value	letter should be in value set		letter=5		letter value is from **value** set	
TC_002	1. n^2 x n^2 grid is generated by Sudoku(n) 2. generated value set of size (n^2) 3. set value of an empty cell	valid size	integer size in range (1 to n^2)	Sodoku (size)	size=4	Returns True	Value of x is out of range (1 , size ^{2})	FAIL
		invalid x value	integer x in range (1 to size^2)	SetPossibleValues(values)	**value**={1 to 16}	Returns True		
		valid y value	integer y in range (1 to size^2)	SetCellValue(x,y,letter)	x=19 | y=14	Returns False		
		valid letter value	letter should be in value set		letter=9			
TC_003	1. n^2 x n^2 grid is generated by Sudoku(n) 2. generated value set of size (n^2) 3. set value of an empty cell	valid size	integer size in range (1 to n^2)	Sodoku (size)	size=4	Returns True	Value of y is out of range (1 , size ^{2})	FAIL
		valid x value	integer x in range (1 to size^2)	SetPossibleValues(values)	**value**={A to P}	Returns True		
		invalid y value	integer y in range (1 to size^2)	SetCellValue(x,y,letter)	x=4 | y=23	Returns False		
		valid letter value	letter should be in value set		letter=K			
TC_004	1. n^2 x n^2 grid is generated by Sudoku(n) 2. generated value set of size (n^2) 3. set value of an empty cell	valid size	integer size in range (1 to n^2)	Sodoku (size)	size=6	Returns True	letter is out of value set range (1 , 36)	FAIL
		valid x value	integer x in range (1 to size^2)	SetPossibleValues(values)	**value**={1 to 36}	Returns True		
		valid y value	integer y in range (1 to size^2)	SetCellValue(x,y,letter)	x=4 | y=23	Returns False		
		invalid letter value	letter should be in value set		letter=37			
TC_005	1. n^2 x n^2 grid is generated by Sudoku(n) 2. generated value set of size (n^2) 3. set value of an empty cell	valid size	integer size in range (1 to n^2)	Sodoku (size)	size=3	Returns True	Value of x & y is out of range (1 , size ^{2})	FAIL
		invalid x value	integer x in range (1 to size^2)	SetPossibleValues(values)	**value**={1 to 9}	Returns True		
		invalid y value	integer y in range (1 to size^2)	SetCellValue(x,y,letter)	x=14 | y=12	Returns False		
		valid letter value	letter should be in value set		letter=6			
TC_006	1. n^2 x n^2 grid is generated by Sudoku(n) 2. generated value set of size (n^2) 3. set value of an empty cell	valid size	integer size in range (1 to n^2)	Sodoku (size)	size=3	Returns True	x & y can't accept NULL values	FAIL
		null x value	integer x in range (1 to size^2)	SetPossibleValues(values)	**value**={1 to 9}	Returns True		
		null y value	integer y in range (1 to size^2)	SetCellValue(x,y,letter)	x=NULL | y=NULL	Returns False		
		valid letter value	letter should be in value set		letter=6			
TC_007	1. n^2 x n^2 grid is generated by Sudoku(n) 2. generated value set of	valid size	integer size in range (1 to n^2)	Sodoku (size)	size=3	Returns True	letter can't accept NULL values	FAIL
		valid x value	integer x in range (1 to size^2)	SetPossibleValues(values)	**value**={1 to 9}	Returns True		
		valid y value	integer y in range (1 to size^2)	SetCellValue(x,y,letter)	x=2 | y=1	Returns False		

	size (n^2)	null letter value	letter should be in value set	SetCellValue(x,y,letter)	letter=NULL	Returns False		
	3. set value of an empty cell							
TC_008	1. n^2 x n^2 grid is generated by Sudoku(n) 2. generated value set of size (n^2) 3. set value of an empty cell	valid size	integer size in range (1 to n^2)	Sodoku (size)	size=3	Returns True	x & y ara passed correct values but not as integer but string which is not allowed	**FAIL**
		x =String value	integer x in range (1 to size^2)	SetPossibleValues(values)	**value**={1 to 9}	Returns True		
		y=String value	integer y in range (1 to size^2)	SetCellValue(x,y,letter)	x="2" y="1"	Returns False		
		valid letter value	letter should be in value set		letter=7			
TC_009	1. n^2 x n^2 grid is generated by Sudoku(n) 2. generated value set of size (n^2) 3. set value of an empty cell	valid size	integer size in range (1 to n^2)	Sodoku (size)	size=4	Returns True	this is a boundary case where x, y and letter are not within their respective ranges	**FAIL**
		invalid x value	integer x in range (1 to size^2)	SetPossibleValues(values)	**value**={A to P}	Returns True		
		invalid y value	integer y in range (1 to size^2)	SetCellValue(x,y,letter)	x=34 y=20	Returns False		
		invalid letter value	letter should be in value set		letter=Z			