

Test Case	Input	Expected Output	Actual Output	Pass?
1: run through all options	a, 10, yes, yes, yes, yes, b, 5, 6, 3, c, d, 4, 5, 50, e, 6, 7, f	Created password: *&eUPBUr?*	same	yes
		Percentage is 83.333%	(password	
		The number of days to July 4th 2025 from today is: 1769	and	
		The length of the 3rd side of the triangle is: 3.91	number of	
		The volume of the cylinder is 791.681	days will	
		Thank you for visiting. Good day.	vary)	
2: invalid input & pw only upper case and numbers	4s7, a, 5, 22, 8, 4s7, no, 4s7, no, 4s7, no, 4s7, no, 8, yes, no,	Enter a letter from the menu options: 4s7 Invalid Entry. Enter a, b, c, d, e, or f: a Length of password? (8-20) 5 Invalid Entry. Enter a length between 8-20: 22 Invalid Entry. Enter a length between 8-20: 8 Use upper case letters? (yes/no) 4s7 Invalid entry. Enter "yes" or "no". Use upper case letters? no Use lower case letters? (yes/no) 4s7 Invalid entry. Enter "yes" or "no". Use lower case letters? no Use numbers? (yes/no) 4s7 Invalid entry. Enter "yes" or "no". Use numbers? no Use special characters? (yes/no) 4s7 Invalid entry. Enter "yes" or "no". Use special characters? no All options cannot be "no". Length of password? (8-20) 8 Use upper case letters? (yes/no) yes Use lower case letters? (yes/no) no Use numbers? (yes/no) yes Use special characters? (yes/no) no Created password: RTFP4RGF	same	yes

Case 2		<p>Enter a letter from the menu options: b</p> <p>Enter the numerator: 4sy</p> <p>Invalid entry.</p> <p>Enter the numerator (ex. 5.2): 5.2</p> <p>Enter the denominator: 4s7</p> <p>Invalid entry.</p> <p>Enter the denominator (ex. 5.2): 52.356</p> <p>Enter the number of decimal points: 4</p> <p>Percentage is 9.932%</p> <p>Enter a letter from the menu options: d</p> <p>Enter length of one side of the triangle: 4s7</p> <p>Invalid entry.</p> <p>Enter the length of one side (ex. 5.2): 5.23</p> <p>Enter the length of the other side of the triangle: 4s7</p> <p>Invalid entry.</p> <p>Enter the length of the other side (ex. 5.2): 3.68</p> <p>Enter the angle between the sides in degrees: 47.65</p> <p>The length of the 3rd side of the triangle is: 3.868</p> <p>Enter a letter from the menu options: e</p> <p>Enter the radius: 4s7</p> <p>Invalid entry.</p> <p>Enter the radius (ex. 5.2): 5.23</p> <p>Enter the height: 4s7</p> <p>Invalid entry.</p> <p>Enter the height (ex. 5.2): 6.987</p> <p>The volume of the cylinder is 600.405</p>		
3: pw only upper case	a, 12, yes, no, no, no	Created password: EAOVLXUEVAAT	same (password will vary)	yes
4: pw no letters	a, 14, no, no, yes, yes	Created password: <&\$ /^1{#2}4"\$	same (password will vary)	yes
5: pw lower case and special characters	a, 16, no, yes, no, yes	Created password: *-o~m:f]@bul`jdu	same (password will vary)	yes