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| Test Case | Input | Expected output | Output | Pass/Fail |
| 1.Valid Inputs | a-f  demononator >0  Any float | Password, correct percentage, days until the July 4th, correct length for triangle, correct volume, program exits | As expected | Pass |
| 2. Password generator defaults to 12 chars if chosen length is not in range 6-12 | A, 4 | 12 char password | As expected | Pass |
| 3. Percentage error message and calculating is correct | b 5/10  5/0  -5/-10 | 50%  Error  50% | As expected | Pass |
| 4. correct number of days until July | c | 248 | As expected | Pass |
| 5. correct side length | d a:11 b:8 C:37 | 6.67 | As expected | Pass |
| 6. correct volume of cylinder | E  r:5 h:10 | 785.4 | As expected | Pass |
| 7. program prompts user until exit option is chosen | f | exits | As expected | Pass |

