Design Document and Test Plan

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Name of programming challenge for which you submit this document: Areas Calculation

# Pseudocode

*(See Ch. 1.6, p. 20 in our textbook for an example of how to write detailed pseudocode)*

1. Print out menu

2.Take in user input for menu selection

3. take user input to choose proper menu selection using if-else (if 4 quit program, if greater than 4 print error).

4.Print out parts of the geometrical equation for menu selection.

5. Take user input to use in equation.

6. Calculate the area of the shape using the user input data.

7. Loop the menu and selection until the user selects the quit selection.

# Test Plan

*(See Ch. 5.13, p. 306 in our textbook for an example of how to write a test plan)*

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| --- | --- | --- | --- |
| **Test #** | **Purpose** | **Input** | **Expected Output** |
| 1 | Menu selection for square | 1, user data | Square area |
| 2 | Menu selection for circle | 2, user data | Circle area |
| 3 | Menu selection for right triangle | 3, user data | Right triangle area |
| 4 | *Menu selection to quit the program* | 4 | Quit |
| 5 | *Error for menu selection* | 5 | Error |
| … | *(Feel free to add more test cases)* |  |  |