Design Document and Test Plan

Name of team members who collaborated on the design and test plan:

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Name of programming challenge for which you submit this document: Problem 1: Areas Calculation

# Pseudocode

Display 4 menu choices (shapes and exit)

Ask user for input (choice 1-4) – VALIDATE INPUT

Depending on input, asking user for input again. – VALIDATE INPUT

Display calculated output.

Exit Program

# Test Plan

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

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| --- | --- | --- | --- |
| **Test #** | **Purpose** | **Input** | **Expected Output** |
| 1 | Square Menu Choice | 1 2 | Area = 4.00 |
| 2 | Circle Menu Choice | 2 3.0 | Area = 28.27 |
| 3 | Invalid Menu Choice | Letters,  Empty,  Spaces,  Negative Numbers,  0 | You entered an invalid choice. Good bye!  *Terminate the Program* |
| 4 | Right Triangle Menu Choice | 3 4  6 | Area = 12.00 |
| 5 | Exit Menu Choice | 4 | Bye!  *Terminate the Program* |
| … | *(Feel free to add more test cases)* |  |  |