ICS 140 Computational Thinking with Programming

Assignment 2

For the problem below, complete the following steps:

* Find the inputs, outputs and processing steps and store them in the table below.
* Create test cases with expected results based on example input
* Create Pseudocode for the example program
* Create Python Code
* Show Test Results

Design a program that processes information related to a rectangle and

prints/displays the computed values. The program reads in the values of the width and

height. The program then prints the area of the rectangle and the length of the perimeter.

|  |  |  |
| --- | --- | --- |
| **Inputs** | **Outputs** | **Processing** |
| Length Value |  | Area = length \* width |
| Height Value | Area of rectangle | Perimeter = length\*2 + width \*2 |
|  | Length of perimeter |  |

**Test Case 1**

**Example Input**

Length Value: 10

Width Value: 30

**Expected Output:**

Rectangle Area: 300

Rectangle Perimeter: 80

**Test Case 2**

**Example Input**

Length Value: 25

Width Value: 18

**Expected Output:**

Rectangle Area: 450

Rectangle Perimeter: 86

**Pseudocode**

Length = user inputted length

Width = user inputted length

Perimeter = length\*2 + width\*2

Area = length \* width

Print area

Print perimeter

**Python Code**

Text

Description automatically generated

**Test Results**

**A screenshot of a computer

Description automatically generated**