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#!/usr/bin/env python3
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**PROBLEM:**

Write a program called `four_functions.py` that includes four functions and a `main()` program that calls the functions.

The first function is called `give_instructions`. It takes no parameters, and it returns no values. It just prints out an explanation that the program is going to calculate the area of a rectangle.

The second function is called `get_input`. It takes no parameters. It asks the user to enter the length and width of a rectangle, and it returns those values to the main program.

The third function is called `calculate_area`. It takes parameters for length and width, does a calculation to determine the area, and returns that result to the main program. It doesn't print anything.

The fourth function is called `display_results`. It takes a parameter for the area and prints out the results of the program. It doesn't return anything.

The main program calls the functions as needed.

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four_functions.py
This program demonstrates the four types of functions one should be
able to write.
    * Functions with no parameters and no return values.
    * Functions with no parameters that return values.
    * Functions with parameters that don't return a value.
    * Functions with parameters that return values.
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"""

def give_instructions():
    print("""This program is going to demonstrate how to
use functions to accomplish various tasks in a
program.""")
    print("We're going to calculate the area of a rectangle.\n")

def get_input():
    print("Enter the width of rectangle: ",end='')
    width = eval(input())
    print("Enter the height of rectangle: ",end='')
    height = eval(input())
    return width, height

def calculate_area(length, width):
    return length * width

def display_results(area):
    print("The area of the rectangle is", area)

def main():
    give_instructions()
    w, h = get_input()
    a = calculate_area(w, h)
    display_results(a)

if __name__ == "__main__":
    main()

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