

Homework 3 (Max Points:100)

Due Date: October 1 by 11:59 pm EST

Instructions: Each response should be in a .py file. Submit all your code to

<https://submittity.cs.rpi.edu>

Answer the following questions:

1. Write a Python function that checks whether a passed string is palindrome or not.

Note: A palindrome is word, phrase, or sequence that reads the same backward as forward, e.g., madam or nurses run. Hint: Remove the spaces between words first and use 'slicing'. (50 points)

2. Write a Python function that calculates the total surface area of a cylinder with inputs as radius and height of the cylinder. This function must call another function that calculates the area of the base (circle). Hint: Create a function that calculates area of a circle first (with input as radius). (20 points)
3. Write a function that takes a 2-digit number as input and returns its tens digit. For example if the input is 83, the output must be 8. (30 points)