

## Part 2 Questions

1. Do question 2 from part 1, but this time allow the user to input the values of  $m$  and  $v$ , then print the result. Hint: user input should be converted to a float; consider the `float()` method.

2. Write a program that takes a person's name as input and then prints the following given the name John Smith:

Your name is John Smith, Congratulations!!!

3. Use python to find the value of pi to the tenth power and print the result.

4. Use python to find the value of e to the tenth power and print the result.

5. Write a program that prompts the user to input a number. Assume the input will be positive. Print the natural logarithm of this number.

6. Write a program that prompts the user to input the lengths of two sides of a triangle and the angle between them (in degrees). Print out the area of this triangle (recall  $A = ab \sin \theta$ ).

7. Write a function `add()` that takes two numbers as parameters and returns their sum.

8. Write a function `tenth_power()` that takes one number as a parameter and returns the value of the number to the tenth power.