Python Problem Set # 0

1. Given a number between 1 and 100, check if it is prime or not.

A number is prime if it is divisible by only 1 and itself. 1 is not a prime. Write a programme which takes a number input, and checks if it is prime or not.

Input :

(1,56,17,"twenty nine") Note the string input in the end.

2. Using the ideas from first problem, write a programme which gives you first N primes

Input : (5,10,100)

Notice the time taken to solve the problem increases as you increase N What improvements can be made?

3. Given the coordinates of a triangle, check if it is a right angle triangle or not. Also find it's area.

Input :

$$(x_1, y_1), (x_2, y_2), (x_3, y_3)$$