

Homework 6

1. Write a function that uses regular expressions to make sure the password string it is passed is strong. A strong password is defined as one that is at least eight characters long, contains both uppercase and lowercase characters, and has at least one digit. You may need to test the string against multiple regex patterns to validate its strength.
2. Create a function `has_vowel`, that accepts a string and returns `True` if the string contains a vowel (a, e, i, o, or u) returns `False` otherwise.
3. Build upon the `Song` class from your Song List project. Create a database with a table `Songs`. Use `sqlite3` or `SQLAlchemy` ORM, or do it both ways.
4. Generate a `list_x` with the integers from 1 to 100 and `list_y` with 100 random values in an arbitrary range chosen by you. Draw a bar chart using the two lists.