Lab Regex CSIS-1410

Find a partner to pair program with.

```
Create a file called LabRegex.java
                                                                     Regex Basics
You can copy and paste the following code to get you started:
                                                                     • \d .. Digit
public class LabRegex
{
                                                                     \w .. Word character
      public static void main(String[] args)
                                                                     • \s .. White space
      {
             String myRegex1 = "CS\\d{4}";
                                                                     • * ... 0 or more
             test(myRegex1);
                                                                      • + ... 1 or more
      }
                                                                     • ? ... 0 or 1
                                                                     • {3} . Exactly 3
      private static void test(String regex)
             String word;
             Scanner input = new Scanner(System.in);
             System.out.printf("Enter words to match the expression %s%n", regex);
             System.out.println("Enter DONE when you are finished");
             System.out.print("Word: ");
             word = input.nextLine();
             while (!word.equalsIgnoreCase("done"))
             {
                   System.out.printf("%s %s%n", word, word.matches(regex) ? "matches"
                                : "does not match");
                   System.out.print("Word: ");
                   word = input.nextLine();
             }
      }
}
```

The code above tests whether Strings start with the letters CS followed by 4 digits - like CS1400, CS1410, CS2530, etc.

Create regex expressions that tests for

- words that start with an uppercase A
- words that start with an uppercase vowel (A, E, I, O U)
- words that start with an uppercase vowel (A, E, I, O U) and are at least two characters long

Use the Regex Library (regexlib.com) to find regular expressions that

- match a phone numbers of the form xxx-xxx- xxxx
- match emails

Test all of the regular expressions you created / found to verify that they work as expected.