CIS 12

Lab Assignment 14

Submit with the screenshots and code in a Word or a PDF file. You may also submit the files and screenshots in a ZIP archive.

Please follow all directions carefully. If you do not follow directions, you could get reduced credit and possibly a zero for the lab.

This lab is about using regular expression to detect patterns in text input, and how to modify them. This lab is a standalone lab. It doesn’t require you to do any of the other labs, to complete this one.

You will be creating a test script, and 2 modifications to that script. You will also be testing strings with regular expressions to find matches. Please put all scripts in the **ch14** folder, inside of the **htdocs** folder.

**Part 1 - Creating a Test Script Pg. 460**

1. Turn on XAMPP server.
2. Follow steps 1 - 9 on pages 461 - 463 to create Script 14.1 the **pcre.php** file.
3. Now test it by entering the words in Pictures B, C, and D on pages 460 - 463. **Screenshot all of these.**
4. Test it by entering your name in the test subject and a part of your name in the regular expression pattern use forward slashes on end front and back ends of your expression. (E.G.: If your name is **Ian Lasky**. You type **Ian Lasky** in the test subject box and **/Ian/** in the regular expression pattern text box.) **Screenshot this.**

**Part 2 - Defining Simple Patterns Pg. 464**

1. Using the **pcre.php** file, you will be doing more pattern matching via regular expressions.
2. Follow steps 1 - 4 on pages 465 - 466.
3. You will be testing to see if a string contains the letters cat (Pictures A & B), to see if a string starts with cat (Picture C), and a string contains the word color or colour (Picture D). **Screenshot each one.**

**Part 3 - Using Quantifiers Pg. 467**

1. Using the **pcre.php** file, you will be using quantifiers in pattern matching via regular expressions.
2. Follow steps 1 - 5 on pages 467 - 468.
3. You will be testing to see if a string contains the c and t (Picture A), to see if a string matches cat or cats (Picture B), a string ending in .33, .333, or .3333 (Picture C), and matching a five-digit number (Picture D). **Screenshot each one.**

**Part 4 - Using Character Classes Pg. 469**

1. Using the **pcre.php** file, you will be using character classes in pattern matching via regular expressions.
2. Follow steps 1 - 4 on pages 470 - 471.
3. You will be testing to see if a string is formatted as a zip code (Picture A), to see if a string contains no spaces (Picture B), and to validate an email address (Picture C). **Screenshot each one.**
4. For step 4 (Picture C) replace the email listed with your email. **Screenshot that.**

**Part 5 - Finding All Matches Pg. 472**

1. Follow steps 1 - 6 on pages 472 - 474 to modify the **pcre.php** file and saving that as the **matches.php** file (script 14.2).
2. Run the four tests in step 6 (Pictures A - D) and **screenshot them**.

**Part 6 - Using Modifiers Pg. 476**

1. Using the **matches.php** file, you will be using modifiers in pattern matching via regular expressions.
2. Follow steps 1 - 3 on pages 476 - 477.
3. You will be validating a list of email addresses. Type the input shown, except I want you to add your email address to the bottom of the list (Picture A), and validating a list of zip codes (Picture B). **Screenshot each one.**

**Part 7 - Matching and Replacing Patterns Pg. 478**

1. Follow steps 1 - 7 on pages 479 - 481 to modify the **matches.php** file (Script 14.3) and save that as the **replace.php** file.
2. You will be replacing bad words with stars (Pictures B & C), and making an email address a link (Picture D). In Picture D, replace the email address shown with your email address. **Screenshot each one.**