Southern New Hampshire University

IT 140 Project Four Script Draft Guidelines and Rubric
Pattern Search and Replace Script Draft

Overview: For your final project, you will be creating four small scripts. Collectively, the four scripts will demonstrate your ability to engage in the fundamental scripting and problem-solving approaches that are represented by the course outcomes.

Reminder: This the first draft. Even if your script is not functioning perfectly, submit your draft and get feedback so that you can improve on it for the final submission in Module Eight.

Prompt: Your task for this project is to create a simple pattern search script. This script emphasizes the importance of regular expressions and their utility for searching, replacing, and managing large volumes of textual data.

You will working on this project in the Project Four: Pattern Search and Replace Script Draft module in Codio. Following the directions in that module, you will also be able to determine the exact placement of the comments you will need to make in the code. Follow the directions in the module in Codio to walk through the activity.

Your script should do the following three things:

1. Define a regular expression pattern to search for nonalphanumeric values in a provided paragraph and output the number of matches to the console.
2. Define a regular expression pattern to search for a two-word sequence separated by dashes and colons and output the number of matches to the console.
3. Define a regular expression pattern to replace the dashes and colons identified in the previous search.

Specifically, your script should address the following **critical elements**:

I. In Your Script (Annotated Text File)
    Refer to the directions in the module in Codio for how to export out and comment your completed script.
    A. Identify an example of the use of a search using **literal characters** in the script using comments in your code.
    B. Identify an example of the use of a search for **sequences and range**s in the script using comments in your code.
    C. Identify an example of a use of search for **special characters and wildcards** in the script using comments in your code.

Reminder: The following critical element **is not submitted** with your draft, but you should be sure to consider the elements of your reflection that you will submit with your finalized script in Module Eight.

II. **Applying Your Experience**

Making mistakes when you learn to write code is common. It is part of learning. What is important is developing the skill of learning how to understand your errors and then fix them (debugging). For this part of your final project, you will respond to the following:

A. Reflecting on your experience with this activity, explain the importance of knowing how and when to use and modify variables, and using branches. Support your response with examples from the activity of the types of errors and your method for fixing them.

Rubric

Guidelines for Submission: This is a draft of part of the final project. Complete the steps in Codio from Section I "In Your Script" and submit to your Learning Environment. Feedback will be provided by your instructor to incorporate in the final submission and the reflection document.

Critical Elements	Exemplary (100%)	Needs Improvement (75%)	Not Evident (0%)	Value
Literal Characters	Identifies an example of the use of a search using literal characters in the script using comments in your code	Identifies an example of the use of a search using literal characters in the script using comments in your code, but example is inappropriate or inaccurate, or comments lack key details	Does not identify an example of the use of a search using literal characters in the script using comments in your code	30
Sequences and Ranges	Identifies an example of the use of a search using sequences and ranges in the script using comments in your code	Identifies an example of the use of a search using sequences and ranges in the script using comments in your code, but example is inappropriate or inaccurate, or comments lack key details	Does not identify an example of the use of a search using sequences and ranges in the script using comments in your code	30
Special Characters and Wildcards	Identifies an example of the use of a search using special characters and wildcards in the script using comments in your code	Identifies an example of the use of a search using special characters and wildcards in the script using comments in your code, but example is inappropriate or inaccurate, or comments lack key details	Does not identify an example of the use of a search using special characters and wildcards in the script using comments in your code	30

Script Comments	Code comments explain and facilitate navigation of the code	Comments provide little assistance with understanding the code	Code is not fully annotated, or comments do not explain the code or do not facilitate navigation of your code	10
			Total	**100%**