

Python Assignment

Rules:

1. Attempt all questions.
2. Complete the assignment in given time period
3. Upload your code to personal github and share the link via email to us.

Questions:

1. Check if the given string is a palindrome or not irrespective of case

Eg: Naan – True, naan – True, roti – False

2. The user enters a string and a substring. You have to print the number of times that the substring occurs in the given string. String traversal will take place from left to right, not from right to left.

NOTE: String letters are case-sensitive. The first line of input contains the original string. The next line contains the substring.

Example: Input: ABCDCDC pattern: CD

output: 2

3. Create a basic rock paper scissors game.

Take 2 user inputs from 2 players. You can use R, P and S are possible user inputs. Play the game for 10 rounds and declare the winner.

Rules of the game

Rock vs Scissors - Rock wins

Rock vs Paper - Paper wins

Paper vs Scissors - Scissor wins

Eg: Game 1: Player1 = R, Player2 = S, Output: Player1 wins

Player1 = P, Player2 = P, Output: Draw

Final Winner: Player with maximum wins

4. The below API print the price of Bitcoin in USD and GBP

<https://api.coindesk.com/v1/bpi/currentprice.json>

- Collect data from this API for 1 day at 5 minutes interval. I.e you will have at least 288 unique data points. Consecutive data points should not have same value.
- Find the highest and lowest price of bitcoin from the collected data, without using minimum or maximum functions.