Python

Question 1: -

Write a program that takes a string as input, and counts the frequency of each word in the string, there mightbe repeated characters in the string. Your task is to find the highest frequency and returns the length of thehighest-frequency word.

Note - You have to write at least 2 additional test cases in which your program will run successfully and provide an explanation for the same.

Example input - string = “write write write all the number from from from 1 to 100”

Example output - 5

Explanation - From the given string we can note that the most frequent words are “write” and “from” and the maximum value of both the values is “write” and its corresponding length is 5

ANS: Link: <https://github.com/SoniPrithish/Assignments_ineuron/blob/main/Q1.py>

Question 2: -

Consider a string to be valid if all characters of the string appear the same number of times. It is also valid if

he can remove just one character at the index in the string, and the remaining characters will occur the same

number of times. Given a string, determine if it is valid. If so, return YES , otherwise return NO .

Note - You have to write at least 2 additional test cases in which your program will run successfully and provide

an explanation for the same.

Example input 1 - s = “abc”. This is a valid string because frequencies are { “a”: 1, “b”: 1, “c”: 1 }

Example output 1- YES

Example input 2 - s “abcc”. This string is not valid as we can remove only 1 occurrence of “c”. That leaves

character frequencies of { “a”: 1, “b”: 1 , “c”: 2 }

Example output 2 NO

Ans : LINK: <https://github.com/SoniPrithish/Assignments_ineuron/blob/main/Q2.py>

Question 3: -

Write a program, which would download the data from the provided link, and then read the data and convert

that into properly structured data and return it in Excel format.

Note - Write comments wherever necessary explaining the code written.

Link - https://raw.githubusercontent.com/Biuni/PokemonGO-Pokedex/master/pokedex.json

Data Attributes - id: Identification Number - int num: Number of the

● Pokémon in the official Pokédex - int name: Pokémon name -

● string img: URL to an image of this Pokémon - string type:

● Pokémon type -string height: Pokémon height - float

● weight: Pokémon weight - float candy: type of candy used to evolve Pokémon or

given

● when transferred - string candy\_count: the amount of candies required to evolve

- int

● egg: Number of kilometers to travel to hatch the egg - float spawn\_chance:

● Percentage of spawn chance (NEW) - float avg\_spawns: Number of this

pokemon on 10.000 spawns (NEW) - int

● spawn\_time: Spawns most active at the time on this field. Spawn times are the same for all

time zones and are expressed in local time. (NEW) - “minutes: seconds” multipliers:

Multiplier of Combat Power (CP) for calculating the CP after evolution See below - list of int

weakness: Types of

● Pokémon this Pokémon is weak to - list of strings next\_evolution: Number and Name of

successive evolutions of Pokémon - list of dict prev\_evolution: Number and Name of previous

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Ans: Link: <https://github.com/SoniPrithish/Assignments_ineuron/blob/main/Q3.py>

Question 4 -

Write a program to download the data from the link given below and then read the data and convert the into

the proper structure and return it as a CSV file.

Link - https://data.nasa.gov/resource/y77d-th95.json

Note - Write code comments wherever needed for code understanding.

Ans: Link: https://github.com/SoniPrithish/Assignments\_ineuron/blob/main/Q4.py

Question 5 -

Write a program to download the data from the given API link and then extract the following data with

proper formatting

Link - http://api.tvmaze.com/singlesearch/shows?q=westworld&embed=episodes

Note - Write proper code comments wherever needed for the code understanding

Excepted Output Data Attributes -

● id - int url - string

● name - string season

● - int number - int

● type - string airdate -

● date format airtime -

● 12-hour time format

● runtime - float

● average rating - float

● summary - string

● without html tags

● medium image link - string

● Original image link - string