

2019/2020

Analiza Wariancji

Ćwiczenia 1

Material: Strings, Lists, Dictionaries, Tuples, Condition Statements and Loops.

Napisz Python program:

1. In the same order print out all even numbers from a number list such that the order is preserved. Stop printing when a number 200 is encountered.

Print wszystkie numery parzyste z danej listy numerów w takiej samej kolejności. Zatrzymaj się jeśli napotkasz 200.

2. List all files in some directory.

Pokaż listę plików w danym katalogu.

3. Calculate the number of days between any two dates.

Oblicz ilość dni pomiędzy dwiema datami.

4. Write a Python program to get a new string from a given string where "Is" has been added to the front. If the given string already begins with "Is" then return the string unchanged.

Utwórz nową string z danej string z dodaniem "Ma" na początku. Jeśli dana string zaczyna się od "Ma", zwróć niezmienną string.

5. Write a Python program to find whether a given number (accept from the user) is even or odd, print out an appropriate message to the user.

Dowiedz się czy dany numer (accept from the user) jest parzysty lub nieparzysty. Wyświetl informacje dla użytkownika.

6. Write a Python program to get a string which is n (non-negative integer) copies of a given string.

7. Write a Python program to test whether a passed letter is a vowel or not.

8. Write a Python program to count the number of each character of a given text of a text file.
Text file dowolny.

9. Write a Python program to find the first appearance of the substring 'not' and 'poor' from a given string, if 'not' follows the 'poor', replace the whole 'not'...'poor' substring with 'good'.
Return the resulting string.

10. Write a Python function to create the HTML string with tags around the word(s).

Sample function and result :

```
add_tags('i', 'Python') -> '<i>Python</i>'
```

```
add_tags('b', 'Python Tutorial') -> '<b>Python Tutorial </b>'
```

11. Write a Python function to insert a string in the middle of a string.

12. Write a Python program to print the following floating numbers up to 2 decimal places.
Python

13. Write a Python program to count repeated characters in a string.

Sample string: 'thequickbrownfoxjumpsoverthelazydog'

14. Write a Python program to remove duplicates from a list.

15. Write a Python program to check whether a list contains a sublist.

16. Write a Python program to split a list into different variables.

17. Write a Python program to check if all dictionaries in a list are empty or not.

18. Write a Python program to get the depth of a dictionary.

19. Write a Python program to sort (ascending and descending) a dictionary by value.

20. Write a Python program to iterate over dictionaries using for loops.