**Week 10**

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**Task 1**

Write a check to see if the string is a palindrome. A palindrome is a word or phrase that reads equally from left to right and from right to left.

word = input("Введите слово или фразу: ").replace(" ", "").lower()

if word == word[::-1]:

print("Это палиндром!")

else:

print("Это не палиндром.")

**Task 2**

Make the number of seconds appear as days:hours:minutes:seconds.

seconds = int(input("Введите количество секунд: "))

days = seconds // 86400

hours = (seconds % 86400) // 3600

minutes = (seconds % 3600) // 60

secs = seconds % 60

print(f"{days} дней, {hours} часов, {minutes} минут, {secs} секунд")

**Task 3**

You accept from the user a sequence of numbers separated by a comma. Make a list and a tuple with these numbers.

 numbers = input("Введите числа через запятую: ").split(",")

print("Список:", numbers)

print("Кортеж:", tuple(numbers))

**Task 4**

Print the first and last item in the list.

 items = input("Введите элементы через запятую: ").split(",")

print("Первый элемент:", items[0])

print("Последний элемент:", items[-1])

**Task 5**

Write a program that accepts the file name and outputs its extension. If the file extension cannot be determined, throw an exception.

 filename = input("Введите имя файла: ")

if "." in filename:

print("Расширение файла:", filename.split(".")[-1])

else:

print("Расширение файла не найдено.")

**Task 6**

For a given integer n, count n + nn + nnn.

 n = input("Введите число: ")

result = int(n) + int(n \* 2) + int(n \* 3)

print("Результат:", result)

**Task 7**

Write a program that outputs even numbers from a given list and stops if it encounters the number 237.

numbers = list(map(int, input("Введите числа через пробел: ").split()))

for num in numbers:

if num == 237:

print(num)

break

if num % 2 == 0:

print(num)