**Практика 14.03.2024**

**Задание 1.**

matrix = [[1, 2, 3], [4, 5, 6], [7, 8, 9]]  
  
print("Все элементы:")  
for row in matrix:  
 for elem in row:  
 print(elem, end=" ")  
print()  
  
print("Все нечётные числа:")  
for row in matrix:  
 for elem in row:  
 if elem % 2 != 0:  
 print(elem, end=" ")  
print()  
even\_count = sum(elem % 2 == 0 for row in matrix for elem in row)  
print("Количество чётных чисел:", even\_count)

**Задание 2.**

matrix\_1 = [[2, 4, 3, 6], [5, 7, 1, 5]]  
matrix\_2 = [[2, 9, 0, 2], [3, 4, 7, 6]]  
  
  
answer\_matrix = [[0 for i in range(len(matrix\_1[0]))] for j in range(len(matrix\_1))]  
  
  
for i in range(len(matrix\_1)):  
 for j in range(len(matrix\_1[0])):  
 answer\_matrix[i][j] = matrix\_1[i][j] \* matrix\_2[i][j]  
  
  
print(answer\_matrix)  
  
  
for row in answer\_matrix:  
 print(sum(row))

**Задание 3.**

fruits = [['Banana', 'apple'], ['apricot', 'Avocado'], ['lime', 'lemon'], ['Mango', 'grapes']]  
  
for sublist in fruits:  
 for item in sublist:  
 if item.isupper():  
 print(item)

**Задание 4.**

random\_elements = [['toy', 'bee', 'cheese', 'ear'],  
 [False, 'word', '0110110', 10],  
 ['happiness', '(」°ロ°)」', 'luck', None],  
 ['car', '<- code ->', 4.7, True]]  
  
for index, row in enumerate(random\_elements):  
 second\_element = row[3]  
 print(f'Индекс: {index}, Элемент: {second\_element}')

**Задание 5.**

rows = int(input("Введите количество строк: "))  
cols = int(input("Введите количество столбцов: "))  
matrix = []  
for i in range(rows):  
 row = []  
 for j in range(cols):  
 value = int(input(f"Введите значение элемента [{i}][{j}]: "))  
 row.append(value)  
 matrix.append(row)  
print("Ваш двумерный массив:")  
for row in matrix:  
 print(row)