Практическая работа № 5.1

Задание 1

a = [["folder", "coursework.doc", "folder", "pict.png", "data.accdb"],  
 ["icon.ico", "script.js", "index.html", "style.css", "prog.py"],  
 ["my\_song.mp3", "anapa-2003.jpg", "cs\_1.6.exe", "folder", "cheat.txt"],  
 ["notes.txt", "main.py", "work.pdf", "cartoon.mp4", "array.py"],  
 ["project.psd", "cycle.py", "folder", "cycle.js", "turtle.py"]]  
b = "folder"  
a1=[]  
a2=[]  
for i in a:  
 print(i)  
print(" ")  
for b in a:  
 for k in b:  
 if k == "folder":  
 b.remove("folder")  
for i in a:  
 print(i)  
print()  
print(" ")  
for i in a:  
 for c in i:  
 if c[-1] == "y":  
 a1.append(c)  
 elif c == "data.accdb":  
 i.remove(c)  
 i.append("data.sql")  
print(a1)  
print(" ")  
for b in a:  
 for d in i:  
 if d[-2] == "j":  
 d = "new\_" + d  
 a2.append(d)  
 print(a2)

Задание 2

word\_numb = ["ноль", "один", "два", "три", "четыре", "пять", "шесть", "семь", "восемь", "девять"]  
a = int(input("Введите чисто <= 9: "))  
if 0 <= a <=9:  
 for i in range(a+1):  
 print(word\_numb [i])  
else:  
 print("Введите число <= 9")

Задание 3

bin\_sy = ['11011111', '11011101', '11000111', '11011100', '11011110']  
dst\_nums = []  
for a in bin\_sy:  
 dst\_num = int(a, 2)  
 dst\_nums.append(dst\_num)  
print(dst\_nums)  
maxs = max(dst\_nums)  
print(maxs)  
mini = min(dst\_nums)  
print(mini)

Задание 4

matrix = [["-446", "281", "-80"],  
 ["465", "432", "-122"],  
 ["13", "error", "8"]]  
for i, row in enumerate(matrix):  
 for a, elem in enumerate(row):  
 if isinstance(elem, str):  
 matrix[i][a] = len(elem)  
sum\_sum = sum([int(elem) for row in matrix for elem in row])  
print(sum\_sum)

Задание 5

matrix = [[1, 2, 3],  
 [4, 5, 6],  
 [7, 8, 9]]  
sum\_sum = matrix[0][0] + matrix[1][1] + matrix[2][2]  
print(sum\_sum)

или

matrix = [[1, 2, 3],  
 [4, 5, 6],  
 [7, 8, 9]]  
sum\_diagonal = 0  
for i in range(len(matrix)):  
 sum\_diagonal += matrix[i][i]  
 print(sum\_diagonal)