JALEN JEUDY

SEPTEMBER 30, 2021

STAT 1129

HOMEWORK #3

GITHUB LINK:

**In [1]:**

marks **=** {'Andy':88, 'Amy':66, 'James': 90, 'Jules': 55, 'Arthur': 77}

**In [2]:**

**for** name, grade **in** marks**.**items():

print(name,':', grade)

Andy : 88

Amy : 66

James : 90

Jules : 55

Arthur : 77

**In [3]:**

**import** statistics **as** stats

**import** math

grades **=** []

**for** grade **in** marks**.**values():

grades**.**append(grade)

print('Mean grade:', stats**.**mean(grades))

print('Max grade:', max(grades))

print('Min grade:', min(grades))

Mean grade: 75.2

Max grade: 90

Min grade: 55

**In [4]:**

**for** name **in** marks**.**keys():

**if** 'J' **in** name:

**break**

**else**:

print(name)

Andy

Amy

**In [5]:**

**for** name **in** marks**.**keys():

**if** 'J' **in** name:

**continue**

**else**:

print(name)

Andy

Amy

Arthur

**In [6]:**

**def** student\_grade(student):

**for** name **in** marks:

**if** student **==** name:

print('Grade:', marks[name])

**break**

**else**:

print('Cannot find this student\'s name')

student\_grade('Amy')

student\_grade('Beth')

Grade: 66

Cannot find this student's name

**In [7]:**

**def** less\_than\_power(num):

n **=** 1

**while** n **<** num:

print(n, n**\*\***n)

n**+=**1

**else**:

print('greater than', n)

less\_than\_power(8)

1 1

2 4

3 27

4 256

5 3125

6 46656

7 823543

greater than 8

**In [8]:**

**def** number\_add(num):

sum **=** 0

n **=** 1

**while** n **<=** num:

sum**+=**n

n**+=**1

**return** sum

number\_add(25)

**Out[8]:**

325

**In [9]:**

**def** number\_step\_add(num):

sum **=** 0

n **=** 1

**for** n **in** range(num**+**1):

sum**+=**n

n**+=**1

print(sum)

number\_step\_add(10)

0

1

3

6

10

15

21

28

36

45

55

**In [10]:**

**def** minimal(v1, v2, v3, v4):

min\_value **=** v1

**if** v2 **<** min\_value:

min\_value **=** v2

**if** v3 **<** min\_value:

min\_value **=** v3

**if** v4 **<** min\_value:

min\_value **=** v4

**return** min\_value

minimal(11,15,12,9)

**Out[10]:**

9