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| **Date:** | **20-05-2020** | **Name:** | **Varun G Shetty** |
| **Course:** | **Python** | **USN:** | **4AL17EC093** |
| **Topic:** | **Build an interactive English dictionary** | **Semester & Section:** | **6th sem B sec** |

Report

**Integers, Floats, Lists, Dictionaries, Tuples, dir, help**

**Integers** are for representing whole numbers:

rank = 18

eggs = 12

people = 3

**Floats** represent continuous values:

temperature = 10.2

rainfall = 5.98

elevation = 1031.88

**Strings** represent any text:

message = "Welcome to our online shop!"

name = "John"

serial = "R001991981SW"

**Lists** represent arrays of values that may change during the course of the program:

members = ["Sim Soony", "Marry Roundknee", "Jack Corridor"]

pixel\_values = [252, 251, 251, 253, 250, 248, 247]

**Dictionaries** represent pairs of keys and values:

phone\_numbers = {"John Smith": "+37682929928", "Marry Simpons": "+423998200919"}

volcano\_elevations = {"Glacier Peak": 3213.9, "Rainer": 4392.1}

**Keys** of a dictionary can be extracted with:

phone\_numbers.keys()

**Values** of a dictionary can be extracted with:

phone\_numbers.values()

**Tuples** represent arrays of values that are not to be changed during the course of the program:

vowels = ('a', 'e', 'i', 'o', 'u')

one\_digits = (0, 1, 2, 3, 4, 5, 6, 7, 8, 9)

To find out what **attributes** a type has:

dir(str)

dir(list)

dir(dict)

To find out what Python **builtin functions** there are:

dir(\_\_builtins\_\_)

**Documentation** for a Python command can be found with:

help(str)

help(str.replace)

help(dict.values)

**Positive/Negative Indexes, Slicing**

Lists, strings, and tuples have a **positive index** system:

["Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Sun"]

0 1 2 3 4 5 6

And a **negative index** system:

["Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Sun"]

-7 -6 -5 -4 -3 -2 -1

In a list, the **2nd**, **3rd**, and **4th** items can be accessed with:

days = ["Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Sun"]

days[1:4]

Output: ['Tue', 'Wed', 'Thu']

**First three items of a list**:

days = ["Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Sun"]

days[:3]

Output:['Mon', 'Tue', 'Wed']

**Last three items of a list**:

days = ["Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Sun"]

days[-3:]

Output: ['Fri', 'Sat', 'Sun']

**Everything but the last**:

days = ["Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Sun"]

days[:-1]

Output: ['Mon', 'Tue', 'Wed', 'Thu', 'Fri', 'Sat']

**Everything but the last two**:

days = ["Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Sun"]

days[:-2]

Output: ['Mon', 'Tue', 'Wed', 'Thu', 'Fri']

A single in a **dictionary** can be accessed using its key:

phone\_numbers = {"John Smith":"+329928","Marry Simpsons":"+423998200919"}

phone\_numbers["Marry Simpsons"]

Output: '+423998200919'

Write python code to verify user\_name = "Micheal" and password ="e3$WT89x". The total number of attempts are 03. For every wrong user\_name and password Print - Invalid username or Password, upon three attempts fails print- Account locked

If inputs are correct Print - You have successfully login

Code:

for i in range(3):

a=input("username:")

b=input("password:")

if a=="Micheal" and b=="e3$WT89x":

print("logged in succesfully")

break

else:

print("username/password is invalid")

if i==2:print("account locked")