AFS505\_U1 - Assignment 4

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Exercise#31

PS D:\afs505\_u1\assignment4> python ex31.py

You enter a dark room with two doors.

Do you go through door #1 or #2?

>1

There's a giant beat here eating a cheese cake.

What do you do?

1. Take the cake.

2. Scream at the bear

>1

The bear eats your face off. Good job!

PS D:\afs505\_u1\assignment4> python ex31.py

You enter a dark room with two doors.

Do you go through door #1 or #2?

>2

You stare in to the endless abyss at Cthulu's retina.

1. Blueberries.

2. Yellow jacket clothespins.

3. Understanding revolvers yelling melodies.

>2

Your body survives powered by a mind of jello.

Good job!

**Study Drills Q1: code modified.**

PS D:\afs505\_u1\assignment4> python ex31studydrills.py

You enter a dark room with three doors.

Do you go through door #1, #2 or #3?

>3

You have two pills on a table

1. You take the red pill

2. You take the blue pill

what do you do?

>3

That is not an option. You have to take a pill!

PS D:\afs505\_u1\assignment4> python ex31studydrills.py

You enter a dark room with three doors.

Do you go through door #1, #2 or #3?

>3

You have two pills on a table

1. You take the red pill

2. You take the blue pill

what do you do?

>1

welcome to the matrix!

**Study Drills Q2: New game**

PS D:\afs505\_u1\assignment4> python ex31studydrills\_newgame.py

A farmer brings you a potato with an unknown disease.

What do you do?

1. Observe the sample under the microscope.

2. Culture a piece of the sample in PDA.

>1

Do you see pathogen structures?

1. Yes

2. No

>1

Do you see mycelia?

1. Yes

2. No

>1

Your pathogen is a fungus!

PS D:\afs505\_u1\assignment4> python ex31studydrills\_newgame.py

A farmer brings you a potato with an unknown disease.

What do you do?

1. Observe the sample under the microscope.

2. Culture a piece of the sample in PDA.

>2

Do you see a growth?

1. Yes

2. No

>2

You may have a protist or virus. Try extracting DNA and sequencing.

Exercise#32

PS D:\afs505\_u1\assignment4> python ex32.py

This is count 1

This is count 2

This is count 3

This is count 4

This is count 5

A fruit of type: apples

A fruit of type: oranges

A fruit of type: pears

A fruit of type: apricots

I got 1

I got pennies

I got 2

I got dimes

I got 3

I got quarters

Adding 0 to the list.

Adding 1 to the list.

Adding 2 to the list.

Adding 3 to the list.

Adding 4 to the list.

Adding 5 to the list.

Element was: 0

Element was: 1

Element was: 2

Element was: 3

Element was: 4

Element was: 5

Exercise#33

PS D:\afs505\_u1\assignment4> python ex33.py

At the top i is 0

Numbers now: [0]

At the bottom i is 1

At the top i is 1

Numbers now: [0, 1]

At the bottom i is 2

At the top i is 2

Numbers now: [0, 1, 2]

At the bottom i is 3

At the top i is 3

Numbers now: [0, 1, 2, 3]

At the bottom i is 4

At the top i is 4

Numbers now: [0, 1, 2, 3, 4]

At the bottom i is 5

At the top i is 5

Numbers now: [0, 1, 2, 3, 4, 5]

At the bottom i is 6

The numbers:

0

1

2

3

4

5

Study drills Q1

PS D:\afs505\_u1\assignment4> python ex33studydrills.py

At the top i is 0

Numbers now: [0]

At the bottom i is 1

At the top i is 1

Numbers now: [0, 1]

At the bottom i is 2

At the top i is 2

Numbers now: [0, 1, 2]

At the bottom i is 3

At the top i is 3

Numbers now: [0, 1, 2, 3]

At the bottom i is 4

At the top i is 4

Numbers now: [0, 1, 2, 3, 4]

At the bottom i is 5

At the top i is 5

Numbers now: [0, 1, 2, 3, 4, 5]

At the bottom i is 6

The numbers: [0, 1, 2, 3, 4, 5]

Q3 - with a variable to change the increment.

PS D:\afs505\_u1\assignment4> python .\ex33studydrills.py

At the top i is 0

Numbers now: [0]

At the bottom i is 2

At the top i is 2

Numbers now: [0, 2]

At the bottom i is 4

At the top i is 4

Numbers now: [0, 2, 4]

At the bottom i is 6

At the top i is 6

Numbers now: [0, 2, 4, 6]

At the bottom i is 8

At the top i is 8

Numbers now: [0, 2, 4, 6, 8]

At the bottom i is 10

The numbers: [0, 2, 4, 6, 8]

Q4- with the for loop

PS D:\afs505\_u1\assignment4> python ex33studydrills4.py

At the top i is 0

Numbers now: [0]

At the bottom i is 1

At the top i is 1

Numbers now: [0, 1]

At the bottom i is 2

At the top i is 2

Numbers now: [0, 1, 2]

At the bottom i is 3

At the top i is 3

Numbers now: [0, 1, 2, 3]

At the bottom i is 4

At the top i is 4

Numbers now: [0, 1, 2, 3, 4]

At the bottom i is 5

At the top i is 5

Numbers now: [0, 1, 2, 3, 4, 5]

At the bottom i is 6

The numbers [0, 1, 2, 3, 4, 5]

Exercise#34

1. The animal at 1 is the 2nd animal and is python3.6
2. The third animal is the animal at 2 and is the peacock.
3. The first animal is the animal at 0 and is the bear.
4. The animal at 3 is the 4th animal and is the kangaroo.
5. The fifth animal is the animal at 4 and is the whale
6. The animal at 2 is the 3rd animal and is the peacock.
7. The sixth animal is the animal at 5 and is the platypus.
8. The animal at 4 is the 5th animal and is the whale.

**\*checking answers with python**

PS D:\afs505\_u1\assignment4> python

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32

Type "help", "copyright", "credits" or "license" for more information.

>>> animals = ['bear', 'python3.6', 'peacock', 'kangaroo', 'whale', 'platypus']

>>> animals[1]

'python3.6'

>>> animals[2]

'peacock'

>>> animals[0]

'bear'

>>> animals[3]

'kangaroo'

>>> animals[4]

'whale'

>>> animals[2]

'peacock'

>>> animals[5]

'platypus'

>>> animals[4]

'whale'

Exercise#35

PS D:\afs505\_u1\assignment4> python ex35.py

you are in a dark room.

There is a door to your right and left

Which one do you take?

>left

There is a bear here.

The bear has a bunch of honey.

The fat bear is in front of another door.

How are you going to move the bear?

>taunt bear

The bear has moved from the door.

You can go through it now.

>open door

This room is full of gold. How much do you take?

>1000

You greedy bastard! Good job!

Exercise#36

PS D:\afs505\_u1\assignment4> python ex36.py

This is an escape room game. you have to solve clues to get out. do you want clue 1 or 2 first?

>1

There are four chairs in the room.

and three cats.

And five crows

How many total legs are in the room? Type in a number.

>42

A door opens. You can go through it now.

you have won the game, you escaped!

You get a gift! do you want the big one or the small one?

>small

Good for you! it's a gold watch!

Exercise#37

\*A code written and the script has being submitted to github

Exercise#38

PS D:\afs505\_u1\assignment4> python ex38.py

Wait there are not 10 things in that list. Let's fix that.

Adding: Boy

There are 7 items now.

Adding: Girl

There are 8 items now.

Adding: Banana

There are 9 items now.

Adding: Corn

There are 10 items now.

There we go: ['Apples', 'Oranges', 'Crows', 'Telephone', 'Light', 'Sugar', 'Boy', 'Girl', 'Banana', 'Corn']

Let's do some things with stuff.

Oranges

Corn

Corn

Apples Oranges Crows Telephone Light Sugar Boy Girl Banana

Telephone#Light

Exercise#39

PS D:\afs505\_u1\assignment4> python

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32

Type "help", "copyright", "credits" or "license" for more information.

>>> things = ['a', 'b', 'c', 'd']

>>> print(things[1])

b

>>> things[1] = 'z'

>>> print(things[1])

z

>>> things

['a', 'z', 'c', 'd']

>>> stuff = {'name': 'Zed', 'age' :39, 'height': 6 \* 12 + 2}

>>> print(stuff['age'])

39

>>> print(stuff['height'])

74

>>> stuff['city'] = "SF"

>>> print(stuff['city'])

SF

>>> stuff[1] = "Wow"

>>> stuff[2] = "Neato"

>>> print(stuff[1])

Wow

>>> print(stuff[2])

Neato

>>> stuff.pop(1)

'Wow'

>>> stuff.pop(2)

'Neato'

>>> stuff

{'name': 'Zed', 'age': 39, 'height': 74}

PS D:\afs505\_u1\assignment4> python ex39.py

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NY state has: New York

OR state has: Portland

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Michigan's abbreviation is: MI

Florida's abbreviation is: FL

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Michigan has: Detroit

Florida has: Jacksonville

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Oregon is abbreviated OR

Florida is abbreviated FL

California is abbreviated CA

New York is abbreviated NY

Michigan is abbreviated MI

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CA has the citySan Francisco

MI has the cityDetroit

FL has the cityJacksonville

NY has the cityNew York

OR has the cityPortland

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Oregon state is abbreviated OR

and has city Portland

Florida state is abbreviated FL

and has city Jacksonville

California state is abbreviated CA

and has city San Francisco

New York state is abbreviated NY

and has city New York

Michigan state is abbreviated MI

and has city Detroit

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Sorry, no Texas.

The city for the state 'TX' is : Does Not Exist