Assignment 4

Ex 18

PS C:\Users\rmann\lpthw> python ex18.py

arg1: Zed, arg2: Shaw

arg1: Zed, arg2: Shaw

arg1: First!

I got nothin'.

PS C:\Users\rmann\lpthw>

Ex 19

PS C:\Users\rmann\lpthw> python ex19.py

We can just give the function numbers directly:

You have 20 cheeses!

You have 30 boxes of crackers!

Man that's enough for a party!

Get a blanket.

OR, we can use variables from our script:

You have 10 cheeses!

You have 50 boxes of crackers!

Man that's enough for a party!

Get a blanket.

We can even do math inside too:

You have 30 cheeses!

You have 11 boxes of crackers!

Man that's enough for a party!

Get a blanket.

And we can combine the two, variables and math:

You have 110 cheeses!

You have 1050 boxes of crackers!

Man that's enough for a party!

Get a blanket.

PS C:\Users\rmann\lpthw>

Ex 20

PS C:\Users\rmann\lpthw> python ex20.py ex15.txt

First let's print the whole file:

Mary had a little lamp

Its fleece was white as snow

It was also tasty

Now let's rewind, kind of like a tape.

Let's print three lines:

1 Mary had a little lamp

2 Its fleece was white as snow

3 It was also tasty

PS C:\Users\rmann\lpthw>

**f.seek(0) -> f.seek(2)**

PS C:\Users\rmann\lpthw> python ex20.py ex15.txt

First let's print the whole file:

Mary had a little lamp

Its fleece was white as snow

It was also tasty

Now let's rewind, kind of like a tape.

Let's print three lines:

1 **ry** had a little lamp

2 Its fleece was white as snow

3 It was also tasty

PS C:\Users\rmann\lpthw>

current\_line = current\_line + 1 ⬄ current\_line += 1

Ex 21

PS C:\Users\rmann\lpthw> python ex21.py

Let's do some math with just functions!

ADDING 30 + 5

SUBTRACTING 78 - 4

MULTIPLYING 90 \* 2

DIVIDING 100 / 2

Age: 35, Height: 74, Weight: 180, IQ: 50.0

Here is a puzzle.

DIVIDING 50.0 / 2

MULTIPLYING 180 \* 25.0

SUBTRACTING 74 - 4500.0

ADDING 35 + -4426.0

That becomes: -4391.0 Can you do it by hand?

PS C:\Users\rmann\lpthw>

**Ex 22**

**Ex 23**

PS C:\Users\rmann> cd lpthw

PS C:\Users\rmann\lpthw> python ex23.py utf-8 strict

b'Afrikaans' <===> Afrikaans

b'\xe1\x8a\xa0\xe1\x88\x9b\xe1\x88\xad\xe1\x8a\x9b' <===> አማርኛ

b'\xd0\x90\xd2\xa7\xd1\x81\xd1\x88\xd3\x99\xd0\xb0' <===> Аҧсшәа

b'\xd8\xa7\xd9\x84\xd8\xb9\xd8\xb1\xd8\xa8\xd9\x8a\xd8\xa9' <===> العربية

b'Aragon\xc3\xa9s' <===> Aragonés

b'Arpetan' <===> Arpetan

b'Az\xc9\x99rbaycanca' <===> Azərbaycanca

b'Bamanankan' <===> Bamanankan

b'\xe0\xa6\xac\xe0\xa6\xbe\xe0\xa6\x82\xe0\xa6\xb2\xe0\xa6\xbe' <===> বাংলা

b'B\xc3\xa2n-l\xc3\xa2m-g\xc3\xba' <===> Bân-lâm-gú

b'\xd0\x91\xd0\xb5\xd0\xbb\xd0\xb0\xd1\x80\xd1\x83\xd1\x81\xd0\xba\xd0\xb0\xd1\x8f' <===> Беларуская

b'\xd0\x91\xd1\x8a\xd0\xbb\xd0\xb3\xd0\xb0\xd1\x80\xd1\x81\xd0\xba\xd0\xb8' <===> Български

b'Boarisch' <===> Boarisch

b'Bosanski' <===> Bosanski

b'\xd0\x91\xd1\x83\xd1\x80\xd1\x8f\xd0\xb0\xd0\xb4' <===> Буряад

b'Catal\xc3\xa0' <===> Català

b'\xd0\xa7\xd3\x91\xd0\xb2\xd0\xb0\xd1\x88\xd0\xbb\xd0\xb0' <===> Чӑвашла

b'\xc4\x8ce\xc5\xa1tina' <===> Čeština

b'Cymraeg' <===> Cymraeg

b'Dansk' <===> Dansk

b'Deutsch' <===> Deutsch

b'Eesti' <===> Eesti

b'\xce\x95\xce\xbb\xce\xbb\xce\xb7\xce\xbd\xce\xb9\xce\xba\xce\xac' <===> Ελληνικά

b'Espa\xc3\xb1ol' <===> Español

b'Esperanto' <===> Esperanto

b'\xd9\x81\xd8\xa7\xd8\xb1\xd8\xb3\xdb\x8c' <===> فارسی

b'Fran\xc3\xa7ais' <===> Français

b'Frysk' <===> Frysk

b'Gaelg' <===> Gaelg

b'G\xc3\xa0idhlig' <===> Gàidhlig

b'Galego' <===> Galego

b'\xed\x95\x9c\xea\xb5\xad\xec\x96\xb4' <===> 한국어

b'\xd5\x80\xd5\xa1\xd5\xb5\xd5\xa5\xd6\x80\xd5\xa5\xd5\xb6' <===> Հայերեն

b'\xe0\xa4\xb9\xe0\xa4\xbf\xe0\xa4\xa8\xe0\xa5\x8d\xe0\xa4\xa6\xe0\xa5\x80' <===> हिन्दी

b'Hrvatski' <===> Hrvatski

b'Ido' <===> Ido

b'Interlingua' <===> Interlingua

b'Italiano' <===> Italiano

b'\xd7\xa2\xd7\x91\xd7\xa8\xd7\x99\xd7\xaa' <===> עברית

b'\xe0\xb2\x95\xe0\xb2\xa8\xe0\xb3\x8d\xe0\xb2\xa8\xe0\xb2\xa1' <===> ಕನ್ನಡ

b'Kapampangan' <===> Kapampangan

b'\xe1\x83\xa5\xe1\x83\x90\xe1\x83\xa0\xe1\x83\x97\xe1\x83\xa3\xe1\x83\x9a\xe1\x83\x98' <===> ქართული

b'\xd2\x9a\xd0\xb0\xd0\xb7\xd0\xb0\xd2\x9b\xd1\x88\xd0\xb0' <===> Қазақша

b'Krey\xc3\xb2l ayisyen' <===> Kreyòl ayisyen

b'Latga\xc4\xbcu' <===> Latgaļu

b'Latina' <===> Latina

b'Latvie\xc5\xa1u' <===> Latviešu

b'L\xc3\xabtzebuergesch' <===> Lëtzebuergesch

b'Lietuvi\xc5\xb3' <===> Lietuvių

b'Magyar' <===> Magyar

b'\xd0\x9c\xd0\xb0\xd0\xba\xd0\xb5\xd0\xb4\xd0\xbe\xd0\xbd\xd1\x81\xd0\xba\xd0\xb8' <===> Македонски

b'Malti' <===> Malti

b'\xe0\xa4\xae\xe0\xa4\xb0\xe0\xa4\xbe\xe0\xa4\xa0\xe0\xa5\x80' <===> मराठी

b'\xe1\x83\x9b\xe1\x83\x90\xe1\x83\xa0\xe1\x83\x92\xe1\x83\x90\xe1\x83\x9a\xe1\x83\xa3\xe1\x83\xa0\xe1\x83\x98' <===> მარგალური

b'\xd9\x85\xd8\xa7\xd8\xb2\xd9\x90\xd8\xb1\xd9\x88\xd9\x86\xdb\x8c' <===> مازِرونی

b'Bahasa Melayu' <===> Bahasa Melayu

b'\xd0\x9c\xd0\xbe\xd0\xbd\xd0\xb3\xd0\xbe\xd0\xbb' <===> Монгол

b'Nederlands' <===> Nederlands

b'\xe0\xa4\xa8\xe0\xa5\x87\xe0\xa4\xaa\xe0\xa4\xbe\xe0\xa4\xb2 \xe0\xa4\xad\xe0\xa4\xbe\xe0\xa4\xb7\xe0\xa4\xbe' <===> नेपाल भाषा

b'\xe6\x97\xa5\xe6\x9c\xac\xe8\xaa\x9e' <===> 日本語

b'Norsk bokm\xc3\xa5l' <===> Norsk bokmål

b'Nouormand' <===> Nouormand

b'Occitan' <===> Occitan

b'O\xca\xbbzbekcha/\xd1\x9e\xd0\xb7\xd0\xb1\xd0\xb5\xd0\xba\xd1\x87\xd0\xb0' <===> Oʻzbekcha/ўзбекча

b'\xe0\xa8\xaa\xe0\xa9\xb0\xe0\xa8\x9c\xe0\xa8\xbe\xe0\xa8\xac\xe0\xa9\x80' <===> ਪੰਜਾਬੀ

b'\xd9\xbe\xd9\x86\xd8\xac\xd8\xa7\xd8\xa8\xdb\x8c' <===> پنجابی

b'\xd9\xbe\xda\x9a\xd8\xaa\xd9\x88' <===> پښتو

b'Plattd\xc3\xbc\xc3\xbctsch' <===> Plattdüütsch

b'Polski' <===> Polski

b'Portugu\xc3\xaas' <===> Português

b'Rom\xc3\xa2n\xc4\x83' <===> Română

b'Romani' <===> Romani

b'\xd0\xa0\xd1\x83\xd1\x81\xd1\x81\xd0\xba\xd0\xb8\xd0\xb9' <===> Русский

b'Seeltersk' <===> Seeltersk

b'Shqip' <===> Shqip

b'Simple English' <===> Simple English

b'Sloven\xc4\x8dina' <===> Slovenčina

b'\xda\xa9\xd9\x88\xd8\xb1\xd8\xaf\xdb\x8c\xdb\x8c \xd9\x86\xd8\xa7\xd9\x88\xdb\x95\xd9\x86\xd8\xaf\xdb\x8c' <===> کوردیی ناوەندی

b'\xd0\xa1\xd1\x80\xd0\xbf\xd1\x81\xd0\xba\xd0\xb8 / srpski' <===> Српски / srpski

b'Suomi' <===> Suomi

b'Svenska' <===> Svenska

b'Tagalog' <===> Tagalog

b'\xe0\xae\xa4\xe0\xae\xae\xe0\xae\xbf\xe0\xae\xb4\xe0\xaf\x8d' <===> தமிழ்

b'\xe0\xb8\xa0\xe0\xb8\xb2\xe0\xb8\xa9\xe0\xb8\xb2\xe0\xb9\x84\xe0\xb8\x97\xe0\xb8\xa2' <===> ภาษาไทย

b'Taqbaylit' <===> Taqbaylit

b'\xd0\xa2\xd0\xb0\xd1\x82\xd0\xb0\xd1\x80\xd1\x87\xd0\xb0/tatar\xc3\xa7a' <===> Татарча/tatarça

b'\xe0\xb0\xa4\xe0\xb1\x86\xe0\xb0\xb2\xe0\xb1\x81\xe0\xb0\x97\xe0\xb1\x81' <===> తెలుగు

b'\xd0\xa2\xd0\xbe\xd2\xb7\xd0\xb8\xd0\xba\xd3\xa3' <===> Тоҷикӣ

b'T\xc3\xbcrk\xc3\xa7e' <===> Türkçe

b'\xd0\xa3\xd0\xba\xd1\x80\xd0\xb0\xd1\x97\xd0\xbd\xd1\x81\xd1\x8c\xd0\xba\xd0\xb0' <===> Українська

b'\xd8\xa7\xd8\xb1\xd8\xaf\xd9\x88' <===> اردو

b'Ti\xe1\xba\xbfng Vi\xe1\xbb\x87t' <===> Tiếng Việt

b'V\xc3\xb5ro' <===> Võro

b'\xe6\x96\x87\xe8\xa8\x80' <===> 文言

b'\xe5\x90\xb4\xe8\xaf\xad' <===> 吴语

b'\xd7\x99\xd7\x99\xd6\xb4\xd7\x93\xd7\x99\xd7\xa9' <===> ייִדיש

b'\xe4\xb8\xad\xe6\x96\x87' <===> 中文

**Ex 27**

PS C:\Users\rmann> python

Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit (Intel)] on win32

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

>>>

>>> 1 == 0

False

>>> 1 == 1

True

>>> 0 == 1

False

>>> 0 == 0

True

>>> 1 ! = 0

>>> 1 !=0

True

>>> 1 !=1

False

>>> 0 !=1

True

>>> 0 !=0

False

>>>

Ex 28

>>> True and True

True

>>> False and True

False

>>> 1 == 1 and 2 == 1

False

>>> "test" == "test"

True

>>> 1 == 1 or 2 !=1

True

>>> True and 1 == 1

True

>>> False and 0 !=0

False

>>> True or 1 == 1

True

>>> "test" == "testing"

False

>>> 1 !=0 and 2 == 1

False

>>> "test" !="testing"

True

>>> "test" == 1

False

>>> not (True and False)

True

>>> not (1 == 1 and 0 !=1)

False

>>> not (10 == 1 or 1000 == 1000)

False

>>> not (1 !=10 or 3 == 4)

False

>>> not ("testing" == "testing" and "Zed" == "Cool Guy")

True

>>> 1 == 1 and (not ("testing" == 1 or 1 == 0))

True

>>> "chunky" == "bacon" and (not (3 == 4 or 3 == 3))

False

>>> 3 == 3 and (not ("testing" == "testing" or "Python" == "Fun"))

False

>>>

**Ex 29**

PS C:\Users\rmann\lpthw> python ex29.py

Too many cats! The world is doomed!

The world is dry!

People are greater than or equal to dogs.

People are less than or equal to dogs.

People are dogs.

PS C:\Users\rmann\lpthw>

**Ex 30**

PS C:\Users\rmann\lpthw> python ex30.py

We should take the cars.

Maybe we could take the trucks.

Alright, let's just take the trucks.

PS C:\Users\rmann\lpthw>

**Ex 31**

PS C:\Users\rmann\lpthw> python ex31.py

You enter a dark room with two doors.

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

> 1

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

What do you do?

1. Take the cake.

2. Scream at the bear.

> 2

The bear eats your legs off. Good job!

PS C:\Users\rmann\lpthw>

PS C:\Users\rmann\lpthw> python ex31.py

You enter a dark room with two doors.

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

> 2

You stare into the endless abyss at Cthulhu's retina.

1. Blueberries.

2. Yellow jacket clothespins.

3. Understanding revolvers yelling melodies.

> 1

Your body survives powered by a mind of jello.

Good job!

PS C:\Users\rmann\lpthw>

**Ex 32**

PS C:\Users\rmann\lpthw> 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

['a', 'b', 'c', 'd']

PS C:\Users\rmann\lpthw>

**Ex 33**

PS C:\Users\rmann\lpthw> 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

PS C:\Users\rmann\lpthw>

**PS C:\Users\rmann\lpthw> python ex33b.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**

**PS C:\Users\rmann\lpthw>**

**Ex 34**