**Exercise 0**

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.

>>> quit ()

PS C:\Users\rmann> mkdir lpthw

Directory: C:\Users\rmann

Mode LastWriteTime Length Name

---- ------------- ------ ----

d----- 1/13/2019 7:09 PM lpthw

**Exercise 1**

PS C:\Users\rmann\lpthw> python ex1.py

Hello World!

Hello Again

I like tying this.

This is fun.

Yay! Printing.

I'd much rather you 'not'.

I "said" do not touch this.

Drill (#):

PS C:\Users\rmann\lpthw> python ex1.py

I "said" do not touch this.

**Exercise 2**

PS C:\Users\rmann> cd lpthw

PS C:\Users\rmann> python ex2.py

I could have code like this.

This will run.

**Exercise 3**

PS C:\Users\rmann\lpthw> python ex3.py

I will now count my chickens:

Hens 30.0

Roosters 97

Now I will count the eggs:

6.75

Is it true that 3 + 2 < 5 - 7?

False

What is 3 + 2? 5

What is 5 - 7? -2

Oh, that's why it's False

How about some more.

Is it greater? True

Is it greater or equal? True

Is it less or equal? False

Drill 1:

#stock taking for poultry unit

print("I will now count my chickens:")

#Start with hens, then roosters, then eggs

print("Hens" , 25 + 30 / 6)

print("Roosters" , 100 - 25 \* 3 % 4)

#remember PEMDAS applies

print("Now I will count the eggs:")

# PEMDAS applies

print(3 + 2 + 1 - 5 + 4 % 2 - 1 / 4 + 6)

# Inequalities

print("Is it true that 3 + 2 < 5 - 7?")

print (3 + 2 < 5 - 7)

print("What is 3 + 2?", 3 + 2)

print("What is 5 - 7?", 5 - 7)

print("Oh, that's why it's False")

print("How about some more.")

print("Is it greater?", 5 > -2)

print("Is it greater or equal?", 5 >= -2)

print("Is it less or equal?", 5 <= -2)

Drill 2

PS C:\Users\rmann\lpthw> 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.

>>> print(8 % 3)

2

>>>

Drill 4

PS C:\Users\rmann\lpthw> python ex3.py

I will now count my chickens:

Hens 30.0

Roosters 97.0

Now I will count the eggs:

6.75

Is it true that 3.0 + 2.0 < 5.0 - 7.0?

False

What is 3.0 + 2.0? 5.0

What is 5.0 - 7.0? -2.0

Oh, that's why it's False

How about some more.

Is it greater? True

Is it greater or equal? True

Is it less or equal? False

PS C:\Users\rmann\lpthw>

**Exercise 4**

PS C:\Users\rmann\lpthw> python ex4.py

There are 100 cars available.

There are only 30 drivers available.

There will be 70 empty cars today.

We can transport 120.0 people today.

We have 90 to carpool today.

We need to put about 3.0 in each car.

PS C:\Users\rmann\lpthw>

Drill:

PS C:\Users\rmann\lpthw> python ex4.py

Traceback (most recent call last):

File "ex4.py", line 5, in <module>

cars\_not\_driven = cars - drivers

NameError: name 'drivers' is not defined

Reason: “dirivers” in Line 5 did not match with 'drivers' in Line 12

Drill: PS C:\Users\rmann\lpthw> python ex4.py: 4.0 and 4 are equivalent

There are 100 cars available.

There are only 30 drivers available.

There will be 70 empty cars today.

We can transport 120 people today.

We have 90 to carpool today.

We need to put about 3.0 in each car.

Drill: 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.

>>> a = 1

>>> b = a + 1

>>> a + b

3

Drill: PS C:\Users\rmann\lpthw> python ex5.py

Let's talk about Zed A. Shaw.

He's 74 inches tall.

He's 180 pounds heavy.

Actually that's not too heavy.

He's got Blue and Brown hair.

His teeth are usually White depending on the coffee.

If I add 35, 74) and 180 I get 289.

PS C:\Users\rmann\lpthw>

Drill

NameError: name 'my\_name' is not defined

**Exercise 5**

PS C:\Users\rmann\lpthw> python ex5b.py

Let's talk about Richard.

He's 81.81818181818181 centimeters tall.

He's 81.81818181818181 kgs heavy.

Actually that's not too heavy.

He's got Blue and Brown hair.

His teeth are usually White depending on the coffee.

If I add 35, 29.133858267716533) and 81.81818181818181 I get 145.95204008589835.

PS C:\Users\rmann\lpthw>

**Exercise 6**

PS C:\Users\rmann\lpthw> python ex6.py

There are 10 types of people.

Those who know binary and those who don't.

I said: 'There are 10 types of people.'

I also said: 'Those who know binary and those who don't.'

Isn't that joke so funny?! False

This is the left side of...a string with the right side.

PS C:\Users\rmann\lpthw>

**Exercise 7**

PS C:\Users\rmann\lpthw> python ex7.py

Mary had a little lamp.

Its fleece was white as snow.

And everywhere that Mary went.

..........

Cheese Burger

PS C:\Users\rmann\lpthw> python ex7.py

Mary had a little lamp.

Its fleece was white as snow.

And everywhere that Mary went.

..........

CheeseBurger

PS C:\Users\rmann\lpthw> python ex7.py

Mary had a little lamp.

Its fleece was white as snow.

And everywhere that Mary went.

..........

Cheese

Burger

**Exercise 8**

PS C:\Users\rmann\lpthw> python ex8.py

1 2 3 4

one two three four

True False False True

{} {} {} {} {} {} {} {} {} {} {} {} {} {} {} {}

Try your Own text here Maybe a poem or a song about fear

PS C:\Users\rmann\lpthw> python ex8.py

1 2 3 4

one two three four

True False False True

{} {} {} {} {} {} {} {} {} {} {} {} {} {} {} {}

World Africa Eastern Africa Uganda

**Exercise 9**

PS C:\Users\rmann\lpthw> python ex9.py

Here are the days: Mon, Tue, Wed, Thu, Fri, Sat, Sun

Here are the months: Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

There's something going on here.

With the three double-quotes.

We'll be able to type as much as we like.

Even 4 lines if we want, or 5, or 6.

PS C:\Users\rmann\lpthw> python ex9.py

Here are the days: Mon, Tue, Wed, Thu, Fri, Sat, Sun

Here are the months: Jan

Feb

Mar

Apr\May

Jun

Jul

Aug

There's something going on here.

With the three double-quotes.

We'll be able to type as much as we like.

Even 4 lines if we want, or 5, or 6.

PS C:\Users\rmann\lpthw> python ex9.py

Here are the days: Mon, Tue, Wed, Thu, Fri, Sat, Sun

Here are the months:

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

There's something going on here.

With the three double-quotes.

We'll be able to type as much as we like.

Even 4 lines if we want, or 5, or 6.

PS C:\Users\rmann\lpthw> python ex9.py

Here are the days:

Here are the months:

There's something going on here.

With the three double-quotes.

We'll be able to type as much as we like.

Even 4 lines if we want, or 5, or 6.

**Exercise 10**

PS C:\Users\rmann\lpthw> python ex10.py

I'm tabbed in.

I'm split

on a line.

I'm \ a \ cat.

I'll do a list:

\* Cat food

\* Fishies

\* Catnip

\* Grass

ex10.py

PS C:\Users\rmann\lpthw> python ex10.py

I'm tabbed in.

I'm split

on a line.

I'm \ a \ cat.

I'll do a list:

\* Cat food

\* Fishies

\* Catnip

\* Grass

**Exercise 11**

PS C:\Users\rmann\lpthw> python ex11.py

How old are you? 15

How tall are you? 70

How much to you weigh? 96

So, you're 15 old, 70 tall and 96 heavy.

At 15, you are still young.

PS C:\Users\rmann\lpthw>

**Exercise 12**

PS C:\Users\rmann\lpthw> python ex12.py

How old are you? 11

How tall are you? 58

Wow 58? Great! How much to you weigh? 90

So, you're 11 old, 58 tall and 90 heavy.

PS C:\Users\rmann\lpthw>

PS C:\Users\rmann\lpthw> python -m pydoc ex5.py

Let's talk about Zed A. Shaw.

He's 74 inches tall.

He's 180 pounds heavy.

Actually that's not too heavy.

He's got Blue and Brown hair.

His teeth are usually White depending on the coffee.

If I add 35, 74) and 180 I get 289.

No Python documentation found for 'ex5.py'.

Use help() to get the interactive help utility.

Use help(str) for help on the str class.

PS C:\Users\rmann\lpthw> python -m pydoc input

Help on built-in function input in module builtins:

input(prompt=None, /)

Read a string from standard input. The trailing newline is stripped.

The prompt string, if given, is printed to standard output without a

trailing newline before reading input.

If the user hits EOF (\*nix: Ctrl-D, Windows: Ctrl-Z+Return), raise EOFError.

On \*nix systems, readline is used if available.

PS C:\Users\rmann\lpthw>

**Exercise 13**

PS C:\Users\rmann\lpthw> python ex13.py first second third

The script is called: ex13.py

Your first variable is: first

Your second variable is: second

Your third variable is: third

PS C:\Users\rmann\lpthw>

PS C:\Users\rmann\lpthw> python ex13.py Africa Eastern\_Africa Uganda

The script is called: ex13.py

Your first variable is: Africa

Your second variable is: Eastern\_Africa

Your third variable is: Uganda

PS C:\Users\rmann\lpthw>

**Exercise 14**

PS C:\Users\rmann\lpthw> python ex14.py rmann

Hi rmann, I'm the ex14.py script.

I'd like to ask you a few questions.

Do you like me rmann?

> Yes

Where do you leave rmann?

> Pullman

What kind of computer do you have?

> Razor Stealth

Alright, you said Yes about liking me.

You live in Pullman. Not sure where that is.

And you have a Razor Stealth computer. Nice.

PS C:\Users\rmann\lpthw>

**Exercise 15**

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

Here's your file ex15.txt:

This is stuff I typed into a file.

It is really cool stuff.

Lots and lots of fun to have here.

Type the filename again:

> ex15.txt

This is stuff I typed into a file.

It is really cool stuff.

Lots and lots of fun to have here.

PS C:\Users\rmann\lpthw>

**Exercise 16**

PS C:\Users\rmann\lpthw> python ex16.py ex15.txt

We're going to erase ex15.txt:

If you don't want that, hit CTRL-C (^C).

If you do want that, hit RETURN.

?

Opening the file...

Truncating the file. Goodbye!

Now I'm going to ask you for three lines.

line 1: Mary had a little lamp

line 2: Its fleece was white as snow

line 3: It was also tasty

I'm going to write these to the file.

And finally, we close it.

PS C:\Users\rmann\lpthw>

**Exercise 17**

PS C:\Users\rmann\lpthw> python ex17.py ex15.txt newex15.txt

Copying from ex15.txt to newex15.txt

The input file is 70 bytes long

Does the output file exist? False

Ready, hit RETURN to continue, CTRL-C to abort.

Traceback (most recent call last):

File "ex17.py", line 18, in <module>

out\_file = open(to\_file,'W')

ValueError: invalid mode: 'W'

PS C:\Users\rmann\lpthw>