**Exercise 0**

“?” query string: Those additional pieces of information in the URL are known as a query string. The query string consists of a sequence of GET parameters, where each parameter has a name and a value. Query strings are generally formatted as

<https://www.google.com/search?q=Harverd&sxsrf=AOaemvI5xMMeZwDHtmSQu1h1VIlUAndQeA%3A1639665310995&source=hp&ei=nk67YebbOMGjptQP7-OjgAM&iflsig=ALs-wAMAAAAAYbtcrq9dqgQIPsc34bHtVRS3EyyWP5YK&ved=0ahUKEwjmoqKjxej0AhXBkYkEHe_xCDAQ4dUDCAk&uact=5&oq=Harverd&gs_lcp=Cgdnd3Mtd2l6EAMyBwguELEDEAoyBwguELEDEAoyBwgAELEDEAoyCggAELEDEIMBEAoyBwguELEDEAoyBwgAELEDEAoyCgguEMcBENEDEAoyCwguELEDEMcBEKMCMgQIABAKMggIABCxAxCDAToOCC4QgAQQsQMQxwEQowI6CwgAEIAEELEDEIMBOggIABCABBCxAzoICC4QsQMQgwE6BQgAEIAEOgQIIxAnOgoILhDHARCvARAnOgUILhCABDoRCC4QgAQQsQMQgwEQxwEQowI6CAguEIAEELEDOgsILhCABBDHARCvAToICAAQgAQQyQM6BQgAEJIDOgcILhCABBAKOgcIABCABBAKUABY0ApgkRRoAHAAeACAAYsCiAHuCJIBBTEuNC4ymAEAoAEB&sclient=gws-wiz>

field1=value1&field2=value2&field3=value3...

where an = separates the name of the parameter from its value, and the & symbol separates parameters from one another. These parameters are a way for forms to submit information to a web server, by encoding the form data in the URL.

If you look through the URL, you should see that one of the GET parameters in the URL is q=Harvard. This suggests that the name for the parameter corresponding to a Google search is q (likely short for “query”).

Compile and Run : python hello.py

Variables: No need to specify type. It is infer type.

a = 28 , d = bool, e= NoneType

b = 1.5, c= “Hello!”

User Type values : input

+ add, concatenation strings

**In Python3** formatted string

name = input(“Name: “)

print(f “Hello, {name}”)

Or print(“Hello ” + name)

**Conditions:**

(:) indicates beginning of body. Indention required.

Always look **TypeError for errors:**

**Traceback:** tell us which part of the code cause an error line 3.

A screenshot of a computer

Description automatically generated with medium confidence

Cast: n=int(input(“number: ” ))

Different types of sequences. Data types store values in collections.

List of data: store inside list

name = ["Harry", "Ron", "Hermione"]

* List- sequence of mutable values (can change, add,remove duplicate)
* Tuple- sequence of immutable values(duplicate)
* Set- collection of unique values (No order random, no duplicate)
* Dict- collection of key value pairs

Functions: Take input and return output.

You can use function to other files. You need to import it In order to use.

From <name of file> import <name of function>

**from functions import square**

alt way:

**import functions**

To use functions.square(i)

Inbuilt csv module, Math module, you can import other people code into module.

* Object store information and operate some operations.

Create a new type in python. 2d x,y using tuple.

Class in python

Self- refers current object

Create x and y values. Inputs

Upcoming Decorators:

Take function and modify function add other behavior functionality