Help :

help() – this will activate the help

help> topics -- will give which are the available modules

help>LISTS – will show the various options available for LISTS.

help>quit – will take it back to python>>>

visual studio, pycharm

* Sublime editor

Light weight editor for writing the python code. Pycharm and Visual Studio code are a bit heavy softwares

Download it from google(official site) – select the OS download and install.

Open sublime text on desktop – write something and save it as a file.

Before running it explore the options of sublime text (tools🡪 build system🡪Python

Ctrl + v to run the code 🡪say ok to prompt and make the selection to proceed further.

More on variables:

Num = 5 (what is happening behind the scenes)

Empty box with memory address and it will store 5 in the box

Graphical user interface, diagram, application

Description automatically generated

To find the address of the variable, we need to use: id(num) 🡪 which will result in providing the address of the variable in memory.

Graphical user interface, application

Description automatically generated

This is the same for string as well . ex name = ‘uday’ and id(name)

Now let’s try something else

A = 10

B = A

Print(A)

Print(B)

Q: what happens with the memory locations ? will they be different or the same?

Graphical user interface, application

Description automatically generated when the values are same they point to the same address in memory in PYTHON, hence it is more memory efficient.

Diagram

Description automatically generated

If the memory address is not being used then it is ready for garbage collection.

Now we will see constants which are opposite to variables.

Ex : PI = 3.14

we cannot create constants in python however we can show our intentions to show the constants.

PI = 3.15 (by creating the name in capital letter we can say that it is constant and say someone that it is constant and not to be modified)

We can see the type of the variable

Type(PI) 🡪 will give float

We have inbuilt data types such as int, float etc.. which we will cover more in the next class.