Built-in function

How to close Python interpreter?

- exit()
- quit()

```
In [ ]:
```

```
# print("hello world")
```

variable

- Just a label
- It is just a reference to certain memory location

input -> functions -> output

```
void-function-name(<input>):
    # logic will only do certain operations in input

return-function-name(<input>):
    # logic to perform certain operations on input and will give some output
```

Types of functions

- · void function
 - void functions just perform the task
 - By default return value is None

Examples,

```
print
help
```

· return function return functions return certain value

Example,

```
input()
type()
int()
float()
str()
bool()
```

```
In [2]:
```

```
foo = print("hello")
print(foo)
```

hello None

input function

- · input function takes a string as input
- · the same string will be printed as message to the end user
- · whatever value user enter, gets converted into data type str

```
In [14]:
```

```
foo = input("Please enter your name: ") # function takes input from user
foo

Please enter your name: prashant

Out[14]:
   'prashant'

In [5]:
bar = input("Please enter your profession : ")

Please enter your profession engineer

In [6]:
print(bar)
```

engineer

```
In [8]:
```

```
my_name = input("please enter your name : ")
type(my_name)
```

please enter your name : Rohit

```
Out[8]:
```

str

- · programming is all about manipulating data
- · data sources
 - databases
 - internet
 - file
 - user

- int (1, 2, 3, 4, 5, 6,...)
- float (20.3, 0.6,....)
- bool (True, False)
- str ("prashant", "python")
- None
- · String is a collection of characters
- string is anything enclosed in double quotes/ single quotes / tripple quotes

In [9]:

help("keywords")

Here is a list of the Python keywords. Enter any keyword to get more help.

False	class	from	or
None	continue	global	pass
True	def	if	raise
and	del	import	return
as	elif	in	try
assert	else	is	while
async	except	lambda	with
await	finally	nonlocal	yield
break	for	not.	

type casting

· converting value from one data type into another

Built-in functions to change data types

- int()
- str()
- float()
- · bool()

```
In [1]:
```

```
# calculator to perform addition
first number = input("Please enter first number : ")
first number = int(first number) # converting `str` value into `int`
second number = input("Please enter second number: ")
second number = int(second number) # converting `str` value into `int`
result = first number + second number
print(result)
Please enter first number: 10
Please enter second number: 20
30
In [17]:
int("prashant")
ValueError
                                           Traceback (most recent call
last)
Cell In [17], line 1
---> 1 int("prashant")
ValueError: invalid literal for int() with base 10: 'prashant'
In [18]:
int("1000")
Out[18]:
1000
In [21]:
30.50 + 10.50
Out[21]:
41.0
In [22]:
30.40 + 12
Out[22]:
42.4
```

localhost:8888/notebooks/PICT/VELOCITY 5Nov/introduction - day 6.ipynb

```
In [24]:
int(30.50)
# RULES -
# float can be converted into integer but precision will be lost
# string representing float cannot be converted into int
ValueError
                                           Traceback (most recent call
last)
Cell In [24], line 1
----> 1 int("30.50")
ValueError: invalid literal for int() with base 10: '30.50'
operators
   - (substraction)
   + (addition)
   * (multiplication)
   / (division)
   % (modulo)
   // (floor division) (converts `float` output into `int` output)
In [ ]:
print()
input()
int()
float()
str()
bool()
exit()
quit()
help()
type()
In [ ]:
### Daily class
Mon - Fri
8:30 PM to 10:00 PM
```

9:00 PM to 10:30 PM ????