Python Programming

Besant Technologies

Setting Environment path

- Need to tell the command prompt where python is installed.
- Just one time task.

Comments:

- Used to understand the code
- More readable
- More understandable
- Types:
  - Single line
  - Multi-line

Keywords:

and	exec	not
assert	finally	or
break	for	pass
class	from	print
continue	global	raise
def	if	return
del	import	try
elif	in	while
else	is	with
except	lambda	yield

Variables:

- Just like a container.
- Used for storing values.
- Values can be changed.
- Adv: No need to define type of variable.
- Memory efficient.
- Garbage collection.

Operators:

- Arithmetic: +,-,*,/,//,%,**
- Assignment: =
- Relational: ==, !=, <,>,<=,>=
- Logical: and, or, not
- Bitwise: &, |, ^, <<, >>, ~

Numbers system conversion

- Decimal
- Binary
- Octal
- Hexadecimal

Datatypes:

- None
- Integer
- Float
- Complex numbers
- Boolean
- Strings

String methods:

- upper()
- lower()
- count()
- find()
- len()
- replace()
- concat(+)
- format() and fstrings

Some more datatypes..

- Lists
- Tuples
- Set
- Dictionary

Lists:

- Elements need not to be same datatype
- Index from ‘0’ to len()
- Updation - adding new values, changing existing values, deleting existing values.
- Concatenation, Repetition, Iteration.
- Membership
- Indexing and Slicing

List Function:

- max() & min()
- len()
- count()
- list()
- append() & extend()
- insert() & index()
- pop() & remove()
- reverse() & sort()