```
Python 3.12.1 (tags/v3.12.1:2305ca5, Dec 7 2023, 22:03:25) [MSC v.1937 64 bit (AMD64)] on win32
   Type "help", "copyright", "credits" or "license()" for more information.
>>> #integer
>>> v = 4
>>> print (v)
>>> #string
>>> name = "Deepika"
>>> print (name)
   Deepika
>>> #list
>>> fruits = ["apples", "oranges", "banana"]
>>> print(fruits)
    ['apples', 'oranges', 'banana']
>>> #dictionary
>>> data = {"name": "Deepika", "age": 19}
>>> print (data)
    {'name': 'Deepika', 'age': 19}
>>> #float
>>> x = 0.7
>>> print(x)
   0.7
>>> print(type(x))
   <class 'float'>
>>> print(type(v))
   <class 'int'>
>>> print (type (name))
   <class 'str'>
>>> print(type(fruits))
   <class 'list'>
>>> print (type (data))
   <class 'dict'>
```

```
>>> #Reverse a String using Slicing
>>> word = "Hello, World!"
>>> reversed string = word[::-1]
>>> print (word)
  Hello, World!
>>> #Explore dir() & help()
>>> i = [1, 2, 3]
>>> print(dir(i))
   [' add ', ' class ', ' class getitem ', ' contains ', ' delattr ', ' delitem ', ' dir ', ' doc ', ' eq ', ' for
  >>> #List out available attributes for dir()
>>> import math
>>> print (dir (math))
   [' doc ', ' loader ', ' name ', ' package ', ' spec ', 'acos', 'acosh', 'asin', 'asinh', 'atan', 'atan2', 'atanh', 'cbrt
   ', 'ceil', 'comb', 'copysign', 'cos', 'cosh', 'degrees', 'dist', 'e', 'erf', 'erfc', 'exp', 'exp2', 'expm1', 'fabs', 'factorial',
   'floor', 'fmod', 'frexp', 'fsum', 'gamma', 'gcd', 'hypot', 'inf', 'isclose', 'isfinite', 'isinf', 'isnan', 'isqrt', 'lcm', 'ldexp'
  , 'lgamma', 'log', 'log10', 'log1p', 'log2', 'modf', 'nan', 'nextafter', 'perm', 'pi', 'pow', 'prod', 'radians', 'remainder', 'sin
  ', 'sinh', 'sgrt', 'sumprod', 'tan', 'tanh', 'tau', 'trunc', 'ulp']
```

```
>>> #Experiment those attributes using help()
>>> x = 4
>>> v = 6
>>> print(dir(x))
    ['_abs_', '_add_', '_and_', '_bool_', '_ceil_', '_class_', '_delattr_', '_dir_', '_divmod_', '_doc_', '_eq_'
    ,' float_', ' floor_', ' floordiv_', '_format_', '_ge_', '_getattribute_', '_getnewargs_', '_getstate_', '_gt_'
    ,' hash_', '_index__', '_init__', '_init_subclass_', '_int_', '_invert_', '_le_', '_lshift_', '_lt_', '_mod_',
    '_mul_', 'ne_', 'new_', 'or_', 'pos_', 'pow_', 'radd_', 'rand_', 'rdivmod_', 'reduce_', '
    _reduce_ex_', '_repr_', '_rfloordiv_', '_rlshift_', '_rmod_', '_rmul_', 'ror_', 'round_', '_rpow_', '_rrshift_
    _', 'rshift_', 'rsub_', 'rtruediv_', 'rxor_', 'setattr_', 'sizeof_', 'str_', 'sub_', 'subclasshook_', '
    _truediv_', 'trunc_', 'xor_', 'as_integer_ratio', 'bit_count', 'bit_length', 'conjugate', 'denominator', 'from_bytes', 'im
    ag', 'is_integer', 'numerator', 'real', 'to_bytes']
>>> print(x__add__)
    <method-wrapper '_add_' of int object at 0x000007FFF25733A18>
>>> print(x__float__)
    <method-wrapper '_float_' of int object at 0x000007FFF25733A18>
>>> print(x__class__)
    <class 'int'>
>>>
```