```
Python 3.6.3 (v3.6.3:2c5fed8, Oct  3 2017, 17:26:49) [MSC v.1900 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> x=1
>>> type(x)
<class 'int'>
>>> x=1.0
>>> type(x)
<class 'float'>
>>> b1=true
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'true' is not defined
>>> b1= TRUE
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'TRUE' is not defined
>>> B1 = True
>>> B2 = True
>>> B2 = False
>>> type(B1)
<class 'bool'>
>>> x=1.0-1.0j
>>> type(x)
<class 'complex'>
>>> print x
  File "<stdin>", line 1
    print x
          ^
SyntaxError: Missing parentheses in call to 'print'. Did you mean print(x)?
```

```
>>> print (x)
(1-1j)
>>> print (x.real,x.imag)
1.0 -1.0
>>> print(dir(types))
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'types' is not defined
>>> print(dir(types))
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'types' is not defined
>>> import types
>>> print(dir(types))
['AsyncGeneratorType', 'BuiltinFunctionType', 'BuiltinMethodType', 'CodeType', 'CoroutineType',
'DynamicClassAttribute', 'FrameType', 'FunctionType', 'GeneratorType', 'GetSetDescriptorType',
'LambdaType', 'MappingProxyType', 'MemberDescriptorType', 'MethodType', 'ModuleType',
'SimpleNamespace', 'TracebackType', '_GeneratorWrapper', '__all__', '__builtins__', '__cached__',
'__doc__', '__file__', '__loader__', '__name__', '__package__', '__spec__', '_ag', '_calculate_meta',
'_collections_abc', '_functools', 'coroutine', 'new_class', 'prepare_class']
>>> x=1.0
>>> type(x)
<class 'float'>
>>> types(x) is float
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: 'module' object is not callable
>>> type(x) is float
True
>>> type(x) is int
```

```
False
>>> isinstance(x,float)
True
>>> x=1.5
>>> print(x,type(x))
1.5 <class 'float'>
>>> x=int(x)
>>> print(x,types(X))
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'X' is not defined
>>> print(X,type(X))
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'X' is not defined
>>> x= int(X)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'X' is not defined
>>> x=int(x)
>>> print(x,type(x))
1 <class 'int'>
>>> z= complex(x)
>>> print(z,type(z))
(1+0j) <class 'complex'>
>>> x=float(z)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: can't convert complex to float
```

```
>>> x=float(z)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: can't convert complex to float
>>> y = bool(z.real)
>>> print(z.real," ->,y,type(y))
  File "<stdin>", line 1
    print(z.real," ->,y,type(y))
                          ^
SyntaxError: EOL while scanning string literal
>>> print (z.real, " -> ",y,type(y))
1.0  ->  True <class 'bool'>
>>> y = bool(z.imag)
>>> print(z.imag, " ->  " y,type(y))
  File "<stdin>", line 1
    print(z.imag, " ->  " y,type(y))
                      ^
SyntaxError: invalid syntax
>>> print(z.imag, " -> " y, type(y))
  File "<stdin>", line 1
    print(z.imag, " -> " y, type(y))
                      ^
SyntaxError: invalid syntax
>>> print(z.imag, " ->",y,type(y))
0.0  -> False <class 'bool'>
>>> 1+2,1-2,1*2,1/2
(3, -1, 2, 0.5)
>>> 1.0+2.0,1.0-2.0,1.0*2.0,1.0/2.0
(3.0, -1.0, 2.0, 0.5)
```

```
>>> 3.0//2.0
1.0
>>> 2**2
4
>>> 2>1,2<1
(True, False)
>>> 2>2,2<2
(False, False)
>>> 2>+2,2<=2
(False, True)
>>> [1,2]==[1,2]
True
>>> 1=|2=[1,2]
  File "<stdin>", line 1
    1=|2=[1,2]
      ^
SyntaxError: invalid syntax
>>> l1=l2=[1,2]
>>> l1 is l2
True
>>> name=input(name = raw_input("What is your name? ")
... city = raw_input("What city do you live in? ")
  File "<stdin>", line 2
    city = raw_input("What city do you live in? ")
       ^
SyntaxError: invalid syntax
>>> state = raw_input("What state is that in? ")
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
```

```
NameError: name 'raw_input' is not defined
>>> print "Hello there! It is so great to meet you,"
  File "<stdin>", line 1
    print "Hello there! It is so great to meet you,"
                                        ^
SyntaxError: Missing parentheses in call to 'print'. Did you mean print("Hello there! It is so great to meet you,")?
>>> # One way to do this is to print strings on separate lines
... print name
  File "<stdin>", line 2
    print name
          ^
SyntaxError: Missing parentheses in call to 'print'. Did you mean print(name)?
>>> print "from"
  File "<stdin>", line 1
    print "from"
           ^
SyntaxError: Missing parentheses in call to 'print'. Did you mean print("from")?
>>> print city
  File "<stdin>", line 1
    print city
          ^
SyntaxError: Missing parentheses in call to 'print'. Did you mean print(city)?
>>> name=input("What is your name")
What is your name junaid
>>> city= input("What city do you l;ive in?")
What city do you l;ive in?multan
>>> print( " Hello there! It is so great to meet you.")
 Hello there! It is so great to meet you.
```

```
>>> print( name)
 junaid
>>> print (from)
  File "<stdin>", line 1
    print (from)
           ^
SyntaxError: invalid syntax
>>> print name
  File "<stdin>", line 1
    print name
          ^
SyntaxError: Missing parentheses in call to 'print'. Did you mean print(name)?
>>> print (name)
 junaid
>>> print("From")
From
>>> print (city)
multan
>>> print (name,"from",city)
 junaid from multan
>>> name= input("What is your name")
What is your name junaid
>>> age = ("Enter your age")
>>> age = input("Enter your age")
Enter your age21
>>> age = 100 - age
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: unsupported operand type(s) for -: 'int' and 'str'
```

```
>>> print(age)
21
>>> ageleft = 100-age
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: unsupported operand type(s) for -: 'int' and 'str'
>>> ageleft = 100-(age)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: unsupported operand type(s) for -: 'int' and 'str'
>>> print(ageleft= 100, -, str(age))
  File "<stdin>", line 1
    print(ageleft= 100, -, str(age))
                        ^
SyntaxError: invalid syntax
>>> print ('ageleft= 100 -', str(age))
ageleft= 100 - 21
>>> print ( ageleft)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'ageleft' is not defined
>>> print ('ageleft')
ageleft
>>> ageleft = 100 - 21
>>> print (ageleft)
79
>>>
```