**Q.** Declare a float value and store it in a variable.
Check the type and print the id of the same.

**Q.** Arithmetic Operations on float
Take two different float values.
Store them in two different variables.
Do below operations on them:-
   Find sum of both numbers
   Find difference between them
   Find the product of both numbers.
   Find value after dividing first num with second number
   Find the remainder after dividing first number with second number
   Find the quotient after dividing first number with second number
   Find the result of the first num to the power of the second number.

**Q.** Comparison Operators on float
Take two different float values.
Store them in two different variables.
Do below operations on them:-
   Compare these two numbers with below operator:-
       Greater than, '>'
       Smaller than, '<'
       Greater than or equal to, '>='
       Less than or equal to, '<='
Observe their output(return type should be boolean)

**Q.** Equality Operator
Take two different float values.
Store them in two different variables.
Equate them using equality operators (==, !=)
Observe the output(return type should be boolean)

**Q.** Logical operators
Observe the output of below code
Cross check the output manually

print(10.20 and 20.30)        #both are true and second value taken
>Output is 20.3

print(0.0 and 20.30)        #First is false so first value
taken->Output is 0.0

```python
print(20.30 and 0.0)          #Goes to till second and second value is
false so second is taken>Output is 0.0

print(0.0 and 0.0)            #First is false so first value is
taken->Output is 0.0

print(10.20 or 20.30)         #First is True so first value is
taken>Output is 10.2

print(0.0 or 20.30)           #Goes to till second and second is true
second value is taken->Output is 20.3

print(20.30 or 0.0)           #First is True so first value is
taken->Output is 20.3

print(0.0 or 0.0)             #Goes to till second and second is also
false and second value is taken>Output is 0.0

print(not 10.20)              #-Not of true is false->Output is False

print(not 0.0)                #Not of false is True>Output is True
```

Q. What is the output of expression inside print statement. Cross check
before running the program.
```python
a = 10.20
b - 10.20
print(a is b)          #True or False? True 10.20<256
print(a is not b)      #True or False? False
```
Why the Id of float values are different when the same value is
assigned to two different variables
ex: a = 10.5 b=10.5. but id will be same if I assign the variable
having float i.e. a=c then both a and c's Id are same

Q. Bitwise operation is not applicable between instances of float.
Why the Id of float values are different when the same value is
assigned to two different variables
ex: a = 10.5 b=10.5. but id will be same if I assign the variable
having float i.e. a=c then both a and c's Id are same
Object reusability concept is not applicable on float values.

Q. Membership operation

in, not in are two membership operators and it returns boolean value

```python
print('2.7' in 'Python2.7.8')              #True
print(10.20 in [10,10.20,10+20j,'Python']) #True
print(10.20 in (10,10.20,10+20j,'Python')) # True
print(20.30 in {1,20.30,30+40j})           # True
print(2.3 in {1:100, 2.3:200, 30+40j:300}) # True
print(10 in range(20))                     # True
```

Q. Membership operation

in, not in are two membership operators and it returns boolean value

```python
print('2.7' in 'Python2.7.8')              #True
print(10.20 in [10,10.20,10+20j,'Python']) #True
print(10.20 in (10,10.20,10+20j,'Python')) # True
```