print("")

# Arithmetic Operators:

#----------------------

# <

# <=

# >

# >=

# ==

# !=

"""

x = 10

if x == 10:

print("x = " + str(x))

if x != 1000:

print("x != 1000")

if x <= 10:

print("x <= 10")

else:

print("x > 10")

if x < 10:

print("x < 10")

elif x > 10:

print("x > 10")

else:

print("x = 10")

"""

# x = 10

# print("x < 10") if x < 10 else print("x >= 10")

# print("x < 10") if x < 10 else print("x > 10") if x > 10 else print("x = 10")

'''

x = "Test"

if x == "Test":

print("x = \a\"Test\"")

else:

print("x != \"Test\"")

'''

"""

x = 1

y = 2

if x == 1 and y == 2:

print("x = 1 and y = 2")

if x == 1 or y == 3:

print("x = 1 or y = 3")

"""

"""

x = 10

y = -2

if x == 1:

print("x = 1")

if y < 0:

print("y is a negative numebr.")

else:

print("y is a positive numebr.")

else:

print("x != 1")

"""

"""

x = 1

if x == 1:

pass

print("after pass")

"""

SearchFor = 100

List1 = [10, 20, 30]

if SearchFor in List1:

print(str(SearchFor) + " is in " + str(List1))

else:

print(str(SearchFor) + " is not in " + str(List1))

print("")

#!/bin/bash

a=1 # Global Variable

function f1()

{

# local a=1

a=1000 # Overwriting the value of a (global variable)

echo $a

}

function f2()

{

echo $a

}

f1

f1

print("")

"""

List1 = ["Item1", "Item22", "Item33", "AA", "BB"]

for i in List1:

print(str(i) + "\t-\t" + str(len(i)))

print("")

for i in List1[0:2]: # List1[0] and List1[1]

print(str(i) + "\t-\t" + str(len(i)))

"""

# for i in range(0, 3): # 0 through 2

# print(i)

# for i in range(0, 3, 1):

# print(i)

# for i in range(2, 4):

# print(i)

# for i in range(1, 10, 2):

# print(i)

# i = 1

# while i <= 10:

# print(i)

# i = i + 1

# i = 1

# while i <= 10:

# if i == 5:

# break

# print(i)

# i = i + 1

"""

i = 1

while i <= 10:

if i == 5:

i = i + 1

continue

print(i)

i = i + 1

print("")

i = 0

while i < 10:

i = i + 1

if i == 5:

continue

print(i)

"""

List1 = [2, 4, 6]

for i in range(1, 21):

if i in List1:

continue

print(str(i) + " is not in " + str(List1))

print("")

print("")

def f1():

print("This is f1() function")

# f1()

# f1()

def f1():

print("This is an updated f1() function")

# f1()

def f2(x):

Result = (x \* 2) + 10

return Result

# x = 10

# Result = 0

# Result = f2(x)

# print("Result = " + str(Result))

# print(f2(10))

# Result = 0

# List1 = []

# for i in range(1, 11):

# Result = f2(i)

# print(str(i) + " - " + str(Result))

# List1.append(Result)

# print(List1)

def f3(x = 10):

Result = (x \* 2) + 7

return Result

x = 1

Result = 0

Result = f3(x)

print(Result)

Result = 0

Result = f3()

print(Result)

print("")

print("")