# >>> Branching IF

IF STATEMENT

a = 33

b = 200

if b > a:

print("b is greater than a")

a = 200

b = 33

if b > a:

print("b is greater than a")

elif a == b:

print("a and b are equal")

else:

print("a is greater than b")

a = 200

b = 33

if b > a:

print("b is greater than a")

else:

print("b is not greater than a")

a = 200

b = 33

c = 500

if a > b and c > a:

print("Both conditions are True")

# Nested IF

x = 41

if x > 10:

print("Above ten,")

if x > 20:

print("and also above 20!")

else:

print("but not above 20.")

# Empty if statement

a = 33

b = 200

if b > a:

pass

# >>> FOR LOOP

FOR LOOP

fruits = ["apple", "banana", "cherry"]

for x in fruits:

print(x)

for x in "banana":

print(x)

fruits = ["apple", "banana", "cherry"]

for x in fruits:

print(x)

if x == "banana":

break

fruits = ["apple", "banana", "cherry"]

for x in fruits:

if x == "banana":

break

print(x)

fruits = ["apple", "banana", "cherry"]

for x in fruits:

if x == "banana":

continue

print(x)

# >>> Nested for loop

adj = ["red", "big", "tasty"]

fruits = ["apple", "banana", "cherry"]

for x in adj:

for y in fruits:

print(x, y)

# >>> While loop

WHILE LOOP

i = 1

while i < 6:

print(i)

if i == 3:

break

i += 1

i = 0

while i < 6:

i += 1

if i == 3:

continue

print(i)

i = 1

while i < 6:

print(i)

i += 1

else:

print("i is no longer less than 6")