```
"""
while koşul_ifadesi:
    ifade1
    ifade2
    ifade3

if <koşul_ifadesi>:
    [else: <suit>]
"""
a = int(input("bir sayı giriniz :"))
if a % 2 == 0:
    print("Çift sayı")
else:
    print("Tek sayı")
# %%
a = int(input("bir sayı giriniz :"))
if a < 0:
    print("Negatif sayı")
elif a > 0:
    print("Pozitif sayı")
else:
    print("Sıfır")

# %%
i = 0
while i < 10:
    print(i)
    i += 1
# %%
a = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
while i < len(a):
    print(a[i], end='')
    i += 1
# %%
import statistics
a = [4, 6, 87, 3, 45, 12, 48, 18, 22, 26]
print("Toplam = ", sum(a), "Ortalama = ", statistics.mean(a))

# %%
"""
for <değişken> in <dizilim>: <suit>
[else: <suit>]
"""
s = "Bursa Uludağ Ünibersitesi Bilgisayar Mühendisliği"
for c in s:
    print(c, end=' ')
# %%
d = {'Aleyna': 123, 'Zeynep': 345, 'Bursa': 456, 'Ahmet': 76}
for key in d:
    print(key, '=>', d[key])
# %%
l = [('Aleyna', 123), ('Funda', 456), ('Zeynep', 126), ('Ali', 654),
('Ahmet', 456)]
for name, no in l:
    print(name, no)
# %%
l = [('Aleyna', 123, 2003), ('Funda', 456, 2002), ('Zeynep', 126, 2001),
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('Ali', 654, 2005), ('Ahmet', 456, 2004)]
for name, no, year in l:
    print(name, no, year)
# %%
for i in range(1, 10):
    print(i, end=' ')
# %%
for i in range(10):
    print(i, end=' ')
# %%
for i in range(1, 10, 2):
    print(i, end=' ')
# %%
for i in range(ord('A'), ord('Z')+1):
    print(chr(i), end=' ')
# A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
# %%
n = int(input('Bir sayı giriniz : '))
for i in range(2, n):
    if n % i == 0:
        print("Asal değil")
        break
else:
    if n < 2:
        print("Geçersiz sayı")
    else:
        print("Asal")
# %%
for i in range(1000):
    pass

# %%
'''
<ifade1> if <bool türden ifade> else <ifade2>
'''
n = int(input('Bir sayı giriniz : '))
result = 100 if n % 2 == 0 else 200
print(result)
# %%
def foo():
    print("Foo")
foo()
print(type(foo)) # <class 'function'>
# %%
def square(a):
    return a * a
x = square(5)
print(x)
# %%
def getOddEven(iterable):
    odd = []
    even = []
    for i in iterable:
        if i % 2 == 0:
            even.append(i)
        else:
            odd.append(i)
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    return odd, even

odd, even = getOddEven([1, 2, 3, 4, 5, 6, 7, 8, 9])
print(odd, even)
# [1, 3, 5, 7, 9] [2, 4, 6, 8]
# %%
import math
def get_mean_stddev(iterable):
    total = 0
    count = 0
    for x in iterable:
        total += x
        count += 1
    mean = total / count
    total = 0
    for x in iterable:
        total += (x - mean) ** 2
        stddev = math.sqrt(total / count)
    return mean, stddev
mean , stddev = get_mean_stddev([1, 2, 3, 5, 6, 8])
print(mean, stddev) # 4.166666666666667 2.4094720491334933
# %%
def foo(a = 10, b = 20, c = 20):
    print('a = {} b = {} c = {}'.format(a, b, c))

foo() # a = 10 b = 20 c = 20
# %%
def foo(a, *b):
    print('a = {} b = {}'.format(a, b))
foo(10, 20, 30) # a = 10 b = (20, 30)
```