```
#Modüller: math, random
#Toolbox'lar: numpy, scipy, pandas
import keyword
print(keyword.kwlist)
len(keyword.kwlist)
1var = 10
val2@ = 35
import = 125
val2 = 10
val = 99
#Yorum satırları
val1 = 10
1.1.1
Multiple
Line
Comment
val2 = 20
0.0000
Multiple
Line
Comment
val3 = 30
#İfadeler (Statement), Tek Satırlı
p1 = 10 + 20
p1
p2 = ['a', 'b', 'c', 'd']
p2
#İfadeler (Statement), Çok Satırlı
p1 = 20 + 30 \setminus
    + 40 + 50 + \
    + 70 + 80
p1
p2 = ['a',
      'b',
      'c',
```

```
- 1
p2
#Hizalama (Indentation) {}
p = 10
if p == 10:
print('P is equal to 10')
p = 10
if p == 10:
   print('P is equal to 10')
for i in range (0, 5):
print(i)
for i in range(0, 5):
    print(i)
#scope (kapsam)
j = 20
for i in range(0, 5):
    print(i)
    print(j)
#Değişken Atamaları
p = 30
id(p)
hex(id(p))
intvar = 10
floatvar = 2.57
strvar = "Python Language"
print(intvar, floatvar, strvar)
print(intvar)
print(floatvar)
print(strvar)
p1 = p2 = p3 = p4 = 44
print(p1, p2, p3, p4, sep = '\t\t')
import sys
#Data Types -> Complex
val3 = 25 + 10j
print(val3)
print(type(val3))
print(sys.getsizeof(val3)) #bellekte kaç byte yer kaplıyor?
print(val3, " is complex?", isinstance(val3, complex)) #True veya
False döndürür
```

```
#Boolean sinifi
bool1 = True
bool2 = False
print(type(bool1))
isinstance(bool1, bool)
bool(0)
bool(1)
bool(None)
#String Üretme
str1 = "HELLO PYTHON"
print(str1)
mystr = '''Hello
           World'''
print(mystr)
mystr2 = 'Wohooo '
mystr2 = mystr2 * 5
mystr2
len(mystr2)
#Karar Yapıları
a = 6
b = 7
print(not a == 7 and b == 7)
print(a == 7 or b == 7)
print(a == 7 \text{ or } b == 6)
print(not(a == 7 and b == 6))
print(not a == 7 and b == 6)
string1 = "abc def ghi"
string2 = "def ghi abc"
print(string1 == string2)
print(string1 != string2)
#Input function kullanarak bir websitesine login uygulaması
username = input("What is your username?")
password = input("What is the password?")
if username == "TBBPython101" and password == "PYTHON":
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print("Welcome TBB Python!")
elif username == "Programming" and password == "Languages":
    print("Welcome Programming Languages")
    print("Cannot recognize who you are?")
#Kredi verme uygulaması
min salary = 30000.0
min years = 2
salary = float(input("Enter your annual salary:"))
years on job = int(input("Enter the number of years employed:"))
if salary >= min salary:
    if years_on_job >= min_years:
        print("You qualified for the loan.")
    else:
        print("You must have been employed",\
              'for at least', min years, \
              'years to qualify.')
    print('You must earn at least $', \
          format(min_salary, ',.2f'), \
          'per year to qualify.')
min_salary = 30000.0
min years = 2
salary = float(input("Enter your annual salary:"))
if salary < min salary:</pre>
    print('You must earn at least $', \
          format(min_salary, ',.2f'), \
          'per year to qualify.')
else:
    years_on_job = float(input("Enter the number of years employed:"))
    if years on job < min years:</pre>
        print("You must have been employed",\
              'for at least', min_years, \
              'years to qualify.')
    else:
        print("You qualified for the loan.")
Enter your annual salary:30001
Enter the number of years employed:2.5
You qualified for the loan.
#Üniversite Ham Puan Hesabı
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```
v = float(input("Enter your midterm exam result: "))
f = float(input("Enter your final exam result: "))
g = 0.4 * v + 0.6 * f
if 90 <= g <= 100:
   l = "AA"
elif 80 <= q <= 90:
    l = "BA"
elif 70 <= g <= 80:
   l = "BB"
elif 60 <= g <= 70:
   l = "CB"
elif 50 <= g <= 60:
   l = "CC"
elif 40 <= g <= 50:
   l = "DC"
elif 30 <= g <= 40:
   l = "DD"
else:
    l = "FF"
print("\nYour grade is", g, "\nYour letter grade is", l)
Enter your midterm exam result: 90
Enter your final exam result: 95
Your grade is 93.0
Your letter grade is AA
#Denklemde kök bulma
d = b^{**}2 - 4^*a^*c
d < 0, no root
d = 0, 1 root
d > 0, 2 roots
'\nd = b^**2 - 4^*a^*c\nd < 0, no root\nd = 0, 1 root\nd > 0, 2 roots\n'
a = float(input("Enter A: "))
if a == 0:
    print("\nThis is not an quadratic equation")
else:
    b = float(input("Enter B: "))
    c = float(input("Enter C: "))
    #diskriminant
    d = b^{**2} - 4^*a^*c
    #kökleri hesaplama
```

```
if d < 0:
        print("\nNo real roots!")
    elif d == 0: #only 1 root
        print("\n0nly one real root.")
        print("The root is", -b/(2*a))
    else:
        print("\nTwo real roots.")
        r1 = (-b + d**0.5) / (2*a)
        r2 = (-b - d**0.5) / (2*a)
        print("The roots are", r1, "and", r2)
Enter A: 1
Enter B: 8
Enter C: 4
Two real roots.
The roots are -0.5358983848622456 and -7.464101615137754
#Tekrarlayan Yapılar
#sonsuz döngü
#while True:
    #print("Hello Python")
#While Döngüsü
count = 0
while (count < 9):
    print("The count is: ", count)
    count += 1 # count = count + 1
print("Goodbye!")
The count is: 0
The count is: 1
The count is: 2
The count is: 3
The count is: 4
The count is: 5
The count is: 6
The count is: 7
The count is: 8
Goodbye!
#while-else
mvcount = 0
while mycount < 5:
    print(mycount, " is less than 5")
    mycount += 1 \# mycount = mycount + 1
else:
    print(mycount, " is not less than 5")
```

```
0 is less than 5
1 is less than 5
2 is less than 5
3 is less than 5
4 is less than 5
5 is not less than 5
#for döngüsü
for letter in 'Python':
    print('Current Letter : ', letter)
Current Letter: P
Current Letter :
Current Letter: t
Current Letter: h
Current Letter: o
Current Letter: n
fruits = ['banana', 'apple', 'mango']
for fruit in fruits:
    print("Current Fruit :", fruit)
print('Goodbye!')
Current Fruit : banana
Current Fruit : apple
Current Fruit : mango
Goodbye!
#Basit Çarpım Tablosu - iç içe for döngüsü
#for x in range(1, 11):
    #for y in range(1, 11):
        \#print('%d * %d = %d' % (x, y, x * y))
#iç içe (nested) while döngüsü
x = -20
y = 20
while x \le y:
    print("X is now: ", x)
    x = x + 1
   while x < 0:
        print("X is negative")
        x = x + 1
X is now: -20
X is negative
X is negative
X is negative
X is negative
X is negative
X is negative
```

```
X is negative
X is negative
X is negative
X is negative
X is negative
X is negative
X is negative
X is negative
X is negative
X is negative
X is negative
X is negative
X is negative
X is now:
X is now:
           1
X is now:
         3
X is now:
X is now:
X is now:
X is now:
X is now:
          7
X is now:
X is now:
           9
X is now: 10
X is now:
          11
X is now:
         12
X is now: 13
X is now:
          14
X is now: 15
X is now:
          16
X is now:
         17
X is now:
          18
X is now: 19
X is now: 20
#Satış komisyon miktarı hesaplama
keep_going = 'y'
#Komisyonu hesaplama
while keep going == 'y':
    sales = float(input('Enter the amount of sales: '))
    comm_rate = float(input('Enter the commission rate: '))
    commision = sales * comm_rate
    #komisyonu göster
    print('The commission is $', \
         format(commission, ',.2f'))
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keep going = input('Do you want to calculate another ' + \
                       'commision (Enter y for yes): ')
Enter the amount of sales: 387000
Enter the commission rate: 0.017
The commission is $ 6,579.00
Do you want to calculate another commision (Enter y for yes): y
Enter the amount of sales: 1467000
Enter the commision rate: 0.0034
The commission is $ 4,987.80
Do you want to calculate another commision (Enter y for yes): q
#Bir sayı serisinin toplamını bulan uygulama
mymax = 5
total = 0.0
print('This program calculates the sum of')
print(mymax, 'numbers you will enter.')
for counter in range(mymax):
    number = int(input("Enter a number: "))
    total = total + number
print('The total is: ', total)
This program calculates the sum of
5 numbers you will enter.
Enter a number: 12
Enter a number: 23
Enter a number: 34
Enter a number: 45
Enter a number: 56
The total is: 170.0
#Girilen sayıların ortalamasını hesaplama
print("When the list is finished, type 'end'.\n")
total = 0
savac = 0
not finished = True #flag
while not finished:
    k = input('Enter a score: ')
    if k != "end":
        total += float(k) # total = total + k
        savac += 1
    else:
        not finished = False
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print("\nAverage: ", total / sayac)
When the list is finished, type 'end'.
Enter a score: 456
Enter a score: 789
Enter a score: 456
Enter a score: 345
Enter a score: 123
Enter a score: 456
Enter a score: 456
Enter a score: 456
Enter a score: end

Average: 437.5

#Analog saat
#for hours in range(24):
    #for minutes in range(60):
    #for seconds in range(60):
    #print(hours, ':', minutes, ':', seconds)
```