

controls

June 26, 2021

```
[1]: if True:  
      print("If      ")
```

If

```
[2]: if True:  
      print("Hello")  
      print("Salem")  
      print("Holo")  
      print("Welcome")
```

Hello
Salem
Holo
Welcome

```
[3]: if False:  
      print("Hello")  
      print("Salem")  
      print("Holo")  
      print("Welcome")
```

Welcome

```
[4]: a = True  
      if a:  
          print("If      ")
```

If

```
[5]: b = False  
      if b:  
          print("If      ")
```

```
[6]: if 3 > 2:  
      print("If      ")
```

If

```
[7]: a = 3 > 2
      if a:
          print("If      ")
```

If

```
[8]: if 3:
      print("If      ")
```

If

```
[9]: if bool(3):
      print("If      ")
```

If

```
[10]: if 0:
       print("If      ")
```

```
[11]: if 'salem':
       print("If      ")
```

If

```
[12]: a = [11,2,3]
      if a:
          print("if      ")
```

if

```
[13]: grade = 85
      if grade >= 95:
          print("A")
      elif 90 <= grade < 95:
          print("A-")
      elif 85 <= grade < 90:
          print("B+")
      elif 80 <= grade < 85:
          print("B")
      else:
          print("      ")
```

B+

```
[15]: i = 0
      while i < 10:
          print("Hello")
          i += 1
```

Hello
Hello
Hello
Hello
Hello
Hello
Hello
Hello
Hello
Hello
Hello

```
[16]: i = 0
      while i < 10:
          print("Salem")
          i += 1
      else:
          print("while-else      ")
      print("Kelesi operatorlar")
```

Salem
Salem
Salem
Salem
Salem
Salem
Salem
Salem
Salem
Salem
Salem
while-else
Kelesi operatorlar
do{ }while()
while True: if : break

```
[17]: """
      ***
      ***
      ***
      """
```

```
[17]: '\n***\n***\n***\n'
```

```
[18]: i = 1
      while i <= 3:
          print(" ", end = " ")
          i += 1
```

```
* * *
```

```
[19]: i = 1
      while i <= 3:
          j = 1
          while j <= 3:
              print("*", end = " ")
              j += 1
          print()
          i += 1
```

```
* * *
* * *
* * *
```

```
[23]: i = 1
      while i <= 3:
          j = 1
          while j <= 3:
              print("*", end = " ")
              j += 1
          print()
          i += 1
```

```
* * *
* * *
* * *
```

```
[24]: a = 7
      i = 1
      while i <= a:
          j = 1
          while j <= a:
              print("*", end = " ")
              j += 1
          print()
          i += 1
```

```
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
```

```
* * * * *
```

```
* * * * *
```

```
[25]: a = input("          : ")
      print(type(a))
```

```
<class 'str'>
```

```
[26]: a = input("          : ")
      a = int(a)

      i = 1
      while i <= a:
          j = 1
          while j <= a:
              print("*", end = " ")
              j += 1
          print()
          i += 1
```

```
* * * * *
```

```
* * * * *
```

```
* * * * *
```

```
* * * * *
```

```
* * * * *
```

```
[27]: a = int(input("          : "))

      i = 1
      while i <= a:
          j = 1
          while j <= a:
              print("*", end = " ")
              j += 1
          print()
          i += 1
```

```
* * * * * * * * * *
```

```
* * * * * * * * * *
```

```
* * * * * * * * * *
```

```
* * * * * * * * * *
```

```
* * * * * * * * * *
```

```
* * * * * * * * * *
```

```
* * * * * * * * * *
```

```
* * * * * * * * * *
```

```
* * * * *
* * * * *
```

```
[28]: for i in [1,2,3,4,5]:
      print(i)
```

```
1
2
3
4
5
```

```
[29]: for i in "SPAM":
      print(i.lower(), end = ' ')
```

```
s p a m
```

```
[30]: sum = 0
      for i in (3,4,5):
          sum += i

      print(f"sum = {sum}")
```

```
sum = 12
```

```
[31]: sum = 0
      a = (3,4,5)
      for i in a:
          sum += i

      print(f"sum = {sum}")
```

```
sum = 12
```

```
[34]: print("sum = {0}".format(sum), "ffdff", "dsdss")
```

```
sum = 12 ffdff dsdss
```

```
[35]: range(5)
```

```
[35]: range(0, 5)
```

```
[36]: list(range(0,5))
```

```
[36]: [0, 1, 2, 3, 4]
```

```
[37]: sum = 0
      for i in range(10):
```

```
    sum += i

print(f"sum = {sum}")
```

sum = 45

```
[38]: sum = 0
      for i in range(5, 10):
          sum += i

      print(f"sum = {sum}")
```

sum = 35

```
[39]: list(range(3, 20, 3))
```

```
[39]: [3, 6, 9, 12, 15, 18]
```

```
[40]: for _ in range(5):
      print("salem")
```

salem
salem
salem
salem
salem

```
[42]: i = 1
      sum = 0
      while i < 10:
          sum += i
          print(f"{i} --> {sum}")
          i += 1
```

1 --> 1
2 --> 3
3 --> 6
4 --> 10
5 --> 15
6 --> 21
7 --> 28
8 --> 36
9 --> 45

```
[44]: sum = 0
      for i in range(1,10):
          sum += i
          print(f"{i} --> {sum}")
```

```
1 --> 1
2 --> 3
3 --> 6
4 --> 10
5 --> 15
6 --> 21
7 --> 28
8 --> 36
9 --> 45
```

```
[45]: sum = 0
      for i in range(10):
          sum += i
      else:
          print("for          ")
      print(f"sum = {sum}")
```

```
for
sum = 45
```

```
[46]: sum = 0
      for i in range(10):
          sum += i
          if i == 5:
              break
      else:
          print("for          ")
      print(f"sum = {sum}")
```

```
sum = 15
```

```
[47]: sum = 0
      for i in range(1,10):
          sum += i
          if i == 5:
              continue
          print(f"{i} --> {sum}")
      else:
          print("for          ")
```

```
1 --> 1
2 --> 3
3 --> 6
4 --> 10
6 --> 21
7 --> 28
8 --> 36
9 --> 45
```


for

```
[48]: 34/0
```

```
-----  
ZeroDivisionError                                Traceback (most recent call last)  
<ipython-input-48-db36f5ada519> in <module>  
----> 1 34/0  
  
ZeroDivisionError: division by zero
```

```
[49]: try:  
      34/2  
except ZeroDivisionError:  
    print("0-          ")
```

```
[50]: try:  
      34/0  
except ZeroDivisionError:  
    print("0-          ")
```

0-

```
[51]: try:  
      34/0  
except ZeroDivisionError as var1:  
    print("0-          ")  
    print(var1)
```

0-

division by zero

```
[52]: try:  
      34/0  
except ZeroDivisionError as var1:  
    print("0-          ")  
    print(var1)  
finally:  
    print("          ")
```

0-

division by zero

```
[53]: try:  
      34/2  
except ZeroDivisionError as var1:
```

```
    print("0-                ")
    print(var1)
finally:
    print("                ")
```

```
[54]: try:
      a = 34/2
      b = int("12")
except ZeroDivisionError as var1:
    print("0-                ")
    print(var1)
except ValueError:
    print("dsds")
except KeyError:
    print("fdfd")
finally:
    print("                ")
```

```
[55]: try:
      a = 34/2
      b = int("fg")
except ZeroDivisionError as var1:
    print("0-                ")
    print(var1)
except ValueError:
    print("                ")
except KeyError:
    print("fdfd")
finally:
    print("                ")
```

```
[58]: try:
      a = 34/2
      b = int("fg")
      print("Try                ")
except ZeroDivisionError as var1:
    print("0-                ")
    print(var1)
except ValueError:
    print("                ")
```

```
except KeyError:
    print("fdfd")
finally:
    print("                ")
```

```
[59]: sum = 0
print("                : ")
while True:
    try:
        a = int(input())
        if a == 0:
            break
        sum += a
    except ValueError:
        print("Eu, koke,      !")
        continue
```

```
                :
Eu, koke,      !
```

```
[60]: sum = 0
print("                : ")
while True:
    try:
        a = input()
        if a == 'n':
            break
        else:
            a = int(a)

        print("                n")
    except ValueError:
        print("Eu, koke,      !")
        continue
    sum += a

print(f'sum = {sum}')
```

```
                :
                n
                n
                n

sum = 40
```

```
[62]: sum = 0

flRunning = True
while flRunning:
    print("                n")
    try:
        a = input()
        if a == 'n':
            flRunning = False
        else:
            a = int(a)
            sum += a
    except ValueError:
        print("Eu, koke,      !")
        continue

print(f'sum = {sum}')
```

```
                n
                n
                n
                n
Eu, koke,      !
                n
Eu, koke,      !
                n
                n
sum = 51
```

1

```
[63]: def title():
        print("      !")
        print("  title    ")
```

```
[66]: title()
```

```
!
title
```

```
[67]: print("          ")
        print("          ")
        title()
        print("          ")
```

```
!  
title
```

```
[77]: f = 0  
def sum():  
    f = 5  
    s = 0  
    s = 12  
    print(f"      s = {s}")  
    s = s + 3  
    return s  
s = 90  
d = sum()  
print(f"d = {d}")  
print(f's = {s}')  
print(f'f = {f}')
```

```
      s = 12  
d = 15  
s = 90  
f = 0
```

```
[78]: f = 0  
def sum():  
    global f  
    f = 5  
    s = 0  
    s = 12  
    print(f"      s = {s}")  
    s = s + 3  
    return s  
s = 90  
d = sum()  
print(f"d = {d}")  
print(f's = {s}')  
print(f'f = {f}')
```

```
      s = 12  
d = 15  
s = 90  
f = 5
```

```
[79]: def square(n):  
    n = n**2  
    return n
```

```
[80]: square(3)
```

```
[80]: 9
```

```
[81]: def title(n):  
      n = n**2  
      return None
```

```
[84]: print(title(5))
```

```
None
```

```
[87]: def square(n:int)->int:  
      n = n*2  
      return n
```

```
[88]: square(5)
```

```
[88]: 10
```

```
[89]: square('d')
```

```
[89]: 'dd'
```

```
[90]: lambda x : x*2
```

```
[90]: <function __main__.<lambda>(x)>
```

```
[91]: f = lambda x : x*2
```

```
[92]: f(4)
```

```
[92]: 8
```

```
[ ]:
```