```
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print('Hello World')
    Hello World
x=5
y=6.7
print("Nilai variabel x = " + str(x))
print("Nilai variabel y = " + str (y))
print("Nilai variabel x = ", x)
print("Nilai variabel y = ", y)
     Nilai variabel x = 5
    Nilai variabel y = 6.7
     Nilai variabel x = 5
     Nilai variabel y = 6.7
z1 = x + y
z2 = x - y
z3 = x * y
z4 = x / y
print("Nilai variable z1 = ",z1)
print("Nilai variable z2 = ",z2)
print("Nilai variable z3 = ",z3)
print("Nilai variable z4 = ",z4)
Nilai variable z1 = 11.7
     Nilai variable z2 = -1.70000000000000002
     Nilai variable z3 = 33.5
     Nilai variable z4 = 0.7462686567164178
a = 5
b = 2
c1 = a ** b
c2 = a \% b
print("Nilai c1 adalah ",c1)
print("Nilai c2 adalah ",c2)
     Nilai c1 adalah 25
     Nilai c2 adalah 1
str = 'Belajar pemrograman Python'
print(str)
     Belajar pemrograman Python
import sys
print(sys.version)
     3.12.1 (tags/v3.12.1:2305ca5, Dec 7 2023, 22:03:25) [MSC v.1937 64 bit (AMD64)]
if 5>2:
    print("Lima lebih besar dari dua")
     Lima lebih besar dari dua
print('Lime lebih besar dari dua!')
       Cell In[3], line 2
         print('Lime lebih besar dari dua!')
     IndentationError: expected an indented block after 'if' statement on line 1
```

```
#Ini komentar (comment)
print("Hello, World!")
print("Hello, World!")#Ini komentar (comment)
     Hello, World!
     Hello, World!
x = 5
y = "John"
z = 3.14
print(type(x))
print(type(y))
print(type(z))
     <class 'int'>
     <class 'str'>
<class 'float'>
x1 = "John"
# kutip ' ' dan " " sama
x2 = 'John'
print(x1)
print(x2)
# case sensitive
a = 4
A = "Empat"
print(a)
print(A)
     4
     Empat
#penamaan variable yang diperbolehkan
myvar = "John"
my_var = "John"
_my_var = "John"
myVar = "John"
MYVAR = "John"
myvar2 = "John"
#penamaan variable yang tidak diperbolehkan
2myvar = "John"
my-var = "John"
my var = "John"
x, y, z = 'Orange', 'Banana', 'Cherry'
print(x)
print(y)
print(z)
     Orange
     Banana
     Cherry
x = y = z = 'Orange'
print(x)
print(y)
print(z)
     Orange
     Orange
     Orange
fruits = ['apple', 'banana', 'cherry']
print(fruits)
     ['apple', 'banana', 'cherry']
```

```
number = [1,2,3,4,5]
print(number)
mixed = [1, 'satu', 2, 'dua', 3, 'tiga']
print(mixed)
     [1, 'satu', 2, 'dua', 3, 'tiga']
x,y,z = fruits
print(x)
print(y)
print(z)
     apple
     banana
     cherry
print(fruits[0])
print(fruits[1])
print(fruits[2])
print(fruits[-2])
print(fruits[-1])
print(fruits[-3])
     apple
     banana
     cherry
     banana
     cherry
     apple
fruits = ['apple', 'banana', 'cherry', 'orange', 'kiwi', 'melon', 'mango']
print(fruits[2:5])
     ['cherry', 'orange', 'kiwi']
fruits=['apple', 'banana', 'cherry']
fruits.append('orange')
print(fruits)
     ['apple', 'banana', 'cherry', 'orange']
fruits = ["apple", "banana", "cherry"]
fruits.insert(1, "orange")
print(fruits)
     ['apple', 'orange', 'banana', 'cherry']
fruits = ["apple", "banana", "cherry"]
fruits[1] = "blackcurrant"
print(fruits)
     ['apple', 'blackcurrant', 'cherry']
fruits = ["apple", "banana", "cherry", "orange", "kiwi", "mango"]
fruits[1:3] = ["blackcurrant", "watermelon"] #3 is excluded
print(fruits)
     ['apple', 'blackcurrant', 'watermelon', 'orange', 'kiwi', 'mango']
x = "awesome"
print("Python is " + x)
     Python is awesome
x = "awesome"
print("Python is ", x)
     Python is awesome
```

```
x = "Python is "
y = "awesome"
z = x+y
print(z)
    Python is awesome
x = 5
y = 10
print(x+y)
    15
x = 5
y = "Lima"
print(x+y)
     TypeError
                                              Traceback (most recent call last)
     Cell In[13], line 3
          1 x = 5
2 y = "Lima"
     ----> 3 print(x+y)
     TypeError: unsupported operand type(s) for +: 'int' and 'str'
x = ('apple', 'banana', 'cherry')
print(x)
     ('apple', 'banana', 'cherry')
x = range(6)
print(x)
     range(0, 6)
x = {\text{"name"} : "John", "age" : 36}
print(x)
x = {"apple", "banana", "cherry"}
print(x)
     {'apple', 'cherry', 'banana'}
x = frozenset({"apple", "banana", "cherry"})
print(x)
     frozenset({'apple', 'cherry', 'banana'})
x = True
print(x)
    True
x = b"Hello"
print(x)
    b'Hello'
x = bytearray(5)
print(x)
     bytearray(b'\x00\x00\x00\x00\x00')
x = memoryview(bytes(5))
print(x)
     <memory at 0x000002745D6EBD00>
```

```
x = int(1)
y = int(2.8)
z = int("3")
print('x = ', x)
print('y = ', y)
print('z = ', z)
     x = 1
     y = 2
z = 3
x = float(1)
y = float(2.8)
z = float("3")
w = float("4.2")
print(x)
print(y)
print(z)
print(w)
     1.0
      2.8
      3.0
      4.2
#Mengiris String
b = "Selamat makan"
print(b[2:5])
      lam
b = "Selamat makan"
print(b[:5])
      Selam
fruits = ["apple", "banana", "cherry"]
tropical = ["mango", "pineapple", "papaya"]
fruits.extend(tropical)
print(fruits)
      ['apple', 'banana', 'cherry', 'mango', 'pineapple', 'papaya']
fruits = ["apple", "banana", "cherry"]
fruits.remove("banana")
print(fruits)
      ['apple', 'cherry']
a = 33
b = 200
if b>a:
    print("b is greater than a")
      b is greater than a
a = 33
b = 33
if b>a:
    print("b is greater than a")
elif a==b:
    print("a and b are equal")
     a and b are equal
a = 200
b = 33
if b>a:
    print("b is greater than a")
else:
    print("b is not greater than a")
```

```
b is not greater than a
a = 200
b = 33
c = 500
if a>b and c>a:
   print("Both conditions are True")
     Both conditions are True
a = 200
b = 33
c = 500
if a>b or a>c:
   print("At least of the conditions is True")
     At least of the conditions is True
x = 41
if x>10:
   print("Above ten, ")
    if x>20:
       print("and also aboce 20!")
    else:
       print("but not above 20.")
     Above ten,
     and also aboce 20!
i = 1
while i<6:
   print(i)
    i += 1
     3
     4
i = 1
while i<6:
   print(i)
   if i == 3:
      break
    i += 1
     1
     2
i = 0
while i<6:
   i += 1
    if i == 3:
      continue
    print(i)
     1
     2
     4
     5
     6
fruits = ["apple", "banana", "cherry"]
for x in fruits:
    print(x)
     apple
     banana
     cherry
```

```
for x in "banana":
   print(x)
    b
     а
     n
     а
     n
fruits = ["apple", "banana", "cherry"]
for x in fruits:
   if x == "banana":
       break
    print(x)
     apple
fruits = ["apple", "banana", "cherry"]
for x in fruits:
    if x == "banana":
       continue
    print(x)
     apple
     cherry
for x in range(6):
    print(x)
     0
     1
     3
for x in range(2,6):
    print(x)
     2
     3
     4
for x in range(2,30,3):
    print(x)
     2
     5
     8
     11
     14
     17
     20
     23
     26
     29
#nested loops
adj = ["red", "big", "tasty"]
fruits = ["apple", "banana", "cherry"]
for {\sf x} in adj:
    for y in fruits:
      print(x,y)
     red apple
     red banana
     red cherry
     big apple
     big banana
     big cherry
     tasty apple
     tasty banana
     tasty cherry
```

```
#defining functions
def my_function():
    print("Hello from a function")
#calling the functions
my_function()
     Hello from a function
#Arguments
def my_function(fname):
    print(fname + " Refsnes")
my_function("Emil")
my_function("Tobias")
my_function("Linus")
     Emil Refsnes
     Tobias Refsnes
     Linus Refsnes
#return values
def my_function(x):
    return 5*x
print(my_function(3))
print(my_function(5))
print(my_function(9))
     15
     25
     45
```