

Ilham Tech Python Cheat Sheet

1. Basic

Print

```
In [1]: print("Hello World!")
    Hello World!

Input
In [2]: nama = input("siapa nama anda?")
    siapa nama anda?elyas

Comment
In [3]: # ini comment
```

Operation

```
In [4]: 1 + 1
Out[4]: 2
In [5]: 1/2
Out[5]: 0.5
In [6]: 5-2
Out[6]: 3
In [7]: 5*2
```

```
Out[7]: 10
         5**2
In [8]:
Out[8]: 25
In [10]:
          5**3
Out[10]: 125
        Variables
In [12]: x = 1+2
         print(x)
In [13]: | x = 3
          x += 2
          print(x)
        2. Data Type
        Integer
In [14]: data_type_1 = 10
         print(type(data_type_1))
         <class 'int'>
        Float
         data_type_2 = 10.52
In [15]:
          print(type(data_type_2))
         <class 'float'>
        String
         data_type_3 = "ilham tech"
In [16]:
          print(type(data_type_3))
         <class 'str'>
In [18]:
         # double quote
          print('Hello world! This is "ILHAM TECH"')
         Hello world! This is "ILHAM TECH"
In [20]:
         # new line
          print("Hello world! \nThis is ILHAM TECH")
         Hello world!
         This is ILHAM TECH
```

```
# string concatenation
In [21]:
          print("Hello World"+" THIS is ILHAM TECH")
         Hello World THIS is ILHAM TECH
In [22]:
         #f-string
          variable = "ILHAM"
          print(f"This is {variable} TECH")
         This is ILHAM TECH
        Data Type Conversion
         x = 10
In [25]:
          print(type(float(x)))
         <class 'float'>
         x = 10
In [26]:
          print(type(str(x)))
         <class 'str'>
        3. Functions
          def my_function1(x):
In [27]:
              y = x * 3
              return y
         my_function1(9)
In [28]:
Out[28]: 27
In [29]:
         def my function2(nama, umur):
              print(f"nama saya {nama}, umur saya {umur} tahun")
         my function2("elyas","28")
In [33]:
         nama saya elyas, umur saya 28 tahun
         def my_function3():
In [31]:
              print("Hello World!")
         my_function3()
In [32]:
         Hello World!
        4. Conditions
In [34]:
         x = 4
          if x > 2:
              print("x is greater than 2")
```

x is greater than 2

```
In [37]: | y = 20
          if y < 9:
              print("y is less than 9")
          elif y < 15:
              print("y is less than 15")
          else:
              print("y is greater than or equal to 15")
         y is greater than or equal to 15
         a = 50
In [38]:
          if a > 45 and a < 60:
              print("statement 1 is correct")
              print("statement 1 is incorrect")
         statement 1 is correct
          a = 30
In [40]:
          if a > 45 or a < 60:
              print("statement 1 is correct")
              print("statement 1 is incorrect")
         statement 1 is correct
         5. Loops
         For Loop
         list_fruits = ["apple", "orange", "durian", "banana", "grape", "lemon"]
In [41]:
          for fruit in list_fruits:
              print(fruit)
         apple
         orange
         durian
         banana
         grape
         lemon
In [45]: n = 5
          for i in range(5):
              #print(i)
```

While Loop

n += i
print(n)