Course : CLASS python #1

Instructor : P'Dune

Download Python and set PATH

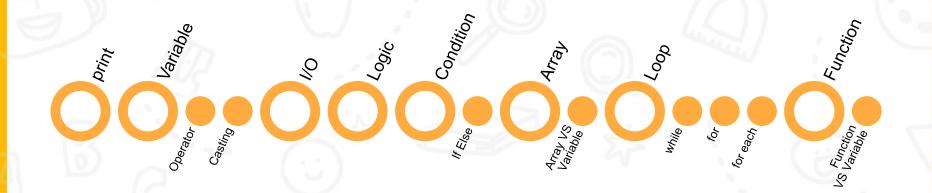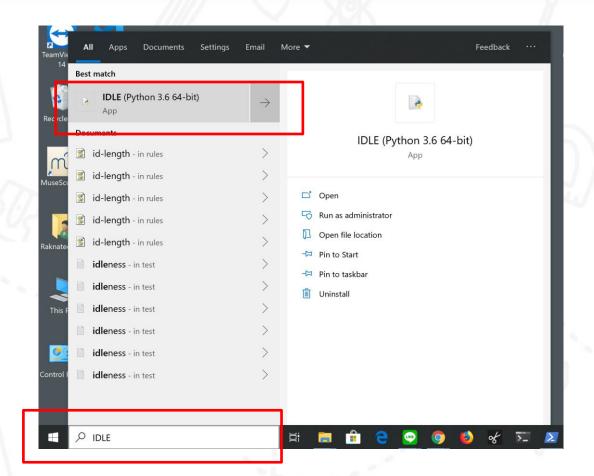# IDE

- × VS studio
- × Python IDLE
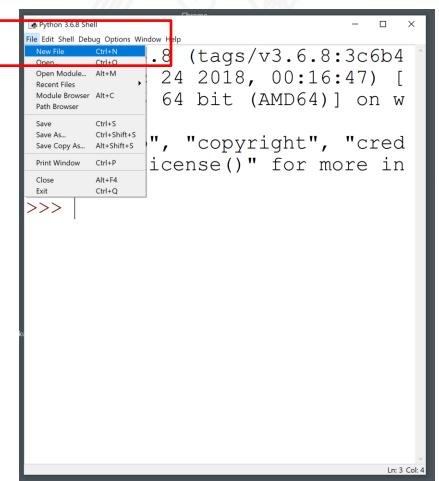
print

Variable

Operator

Casting

I/O

Logic

Condition

If Else

Array

Array VS Variable

Loop

while

for

for each

Function

Function VS Variable

Topic :

1. HelloWorld

Code

Python Shell (Output)

print("Hello World")

Code

Python Shell (Output)

A

10

3

"Hi"

Int   3, 4, 100, 99

Float/Double

3.5, 1.5, 1/2, 31.0

String

"Dune", "Hello World"

Boolean

True, False

Int != String

10 "10"

a = 10

```
a = 10

print(a)
```

```
a = 10
print(a)

nickname= "Dune"
print(nickname)
```

Topic :

3. Operator

+ - * / % //

< > ==

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```
A=4
B=5
print(A+B)
A="4"
B="5"
print(A+B)
```

```
A="4"
B=5
print(A+B)
```

Topic :

4. Casting

A=4

A=str(A)   => "4"

B="5"

B=int(B)   => 5

C="4.5"

C=float(C)   =>4.5

A="4"
A=int(A)
B=5
print(A+B)

```
A="4"
B=5
B=str(B)
print(A+B)
```

Topic :

5. I/O

File   Edit   Format   Run   Options   Window   Help

```
a = input()
print(a)
```

Python 3.6.8 Shell

File   Edit   Shell   Debug   Options   Window   Help
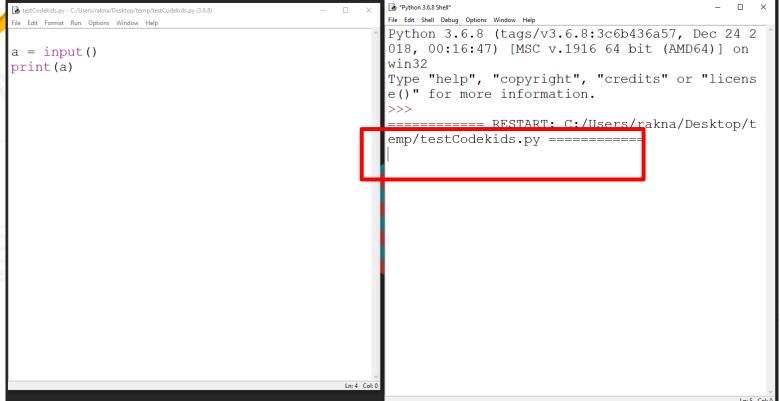
```
Python 3.6.8 (tags/v3.6.8:3c6b436a57, Dec 24 2
018, 00:16:47) [MSC v.1916 64 bit (AMD64)] on
win32
Type "help", "copyright", "credits" or "licens
e()" for more information.
>>>
============== RESTART: C:/Users/rakna/Desktop/t
emp/testCodekids.py ==============
Welcome to CodeKids
Welcome to CodeKids
>>> |
```

Ln: 7   Col: 4

```
A = input()
print(A)
```

```
A = input("What your name")
print(A)
```

Topic :

6. Basic Logic

True or False

Game

1 < 3
5 < 2
3 == 3
3 != 3
4>10

1 <= 3
5 <= 5
3 >= 3
99 != 99
4<=10

1 < 3
5 < 2
3 == 3
3 != 3
4>10

1 <= 3
5 <= 5
3 >= 3
99 != 99
4<=10

"Hello" == "hello"
3 == "3"
"Hi" == "Hi"
"Hehe" != "Hehe"

"Hello" == "hello"

3 == "3"

"Hi" == "Hi"

"Hehe" != "Hehe"

Ex

"and" gate

T and T == T
T and F == F
F and T == F
F and F == F

"or" gate

T or T == T
T or F == T
F or T == T
F or F == F

"not" gate

not T == F

not F == T

if(condition):
    do when condition is True

1 Tab

if(True):

print("Hi :D")

print("End")

```
print("Start")
if( False ):
        print("Hi :D")
print("End")
```

```
if( True ):
    print("Hi :D")
if( 5>1 ):
    print("Hi2 :D")
```

```
if( True ):
       print("Hi :D")
       print(":D :P")
if( 1>5 ):
       print("Hi2 :D")
```

```
if( False ):
      print("Hi :D")
      print(":D :P")
if( 1<5 ):
      print("Hi2 :D")
```

```
A = 5
B = 2

if( A > B ):
      print("A is more than B")
```

A = 5
B = 2

if(A < B):
      print("A is more than B")

if(condition):
     do when condition is True

else :
     do when condition is False

```
A = 5
B = 2
if( A > B ):
     print("A is more than B")
else :
     print("A is less than B")
```
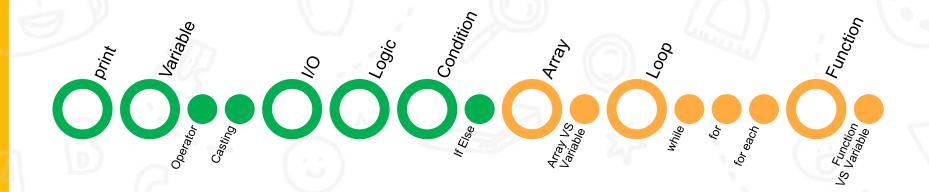
```
A = 5
B = 2
if( A > B ):
      print("A is more than B")
else :
      print("A is less than B")
      print("I come from Else")
```
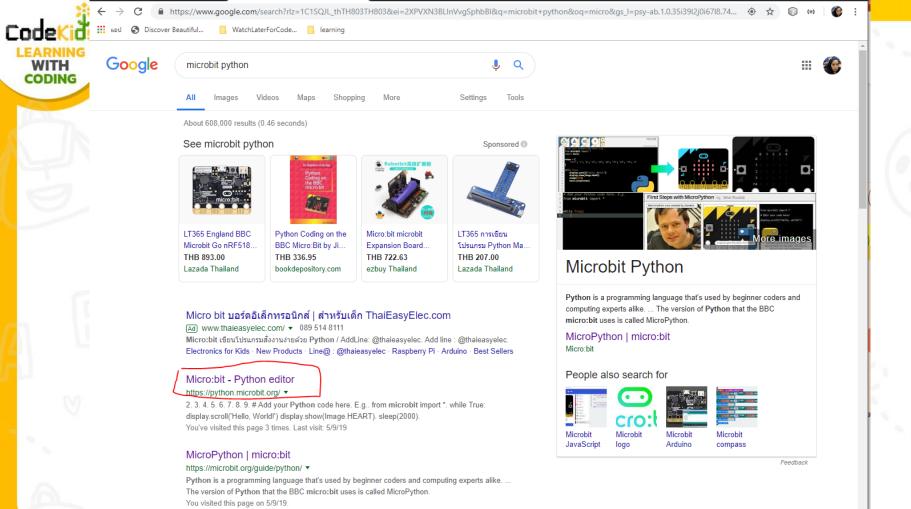
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Topic :

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display.scroll('Hello, World!') display.show(Image.HEART). sleep(2000).
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```python
# Add your Python code here. E.g.
from microbit import *


while True:
    display.scroll('Hello, World!')
    display.show(Image.HEART)
    sleep(2000)
```

```python
# Add your Python code here. E.g.
from microbit import *

countA=0
while True:
    countA= countA+button_a.get_presses()
    display.scroll(str(countA))



```

Workshop

press A decrease counter
press B increase counter

```python
# Add your Python code here. E.g.
from microbit import *

counter = 0
while True:
    counter = counter - button_a.get_presses()
    counter = counter + button_b.get_presses()
    display.scroll(str(counter))
```

Workshop

Use IF statement

```python
# Add your Python code here. E.g.
from microbit import *


while True:

    if(button_a.get_presses()>0):
        display.show(Image.HAPPY)
    else:
        if(button_b.get_presses()>0):
            display.show(Image.SQUARE)

```

```python
# Add your Python code here. E.g.
from microbit import *
while True:

    a=button_a.get_presses()
    b=button_b.get_presses()
    if(a>0 and b>0):
        display.show(Image.FABULOUS)
    else:
        if(a>0):
            display.show(Image.HAPPY)
        else:
            if(b>0):
                display.show(Image.SQUARE)
            else:
                display.show(Image.NO)
    sleep(500)

```

Sample calculator

1) get 3 input [[+,-],value1,value2]
2) get 3 input [[+,-,*,/],value1,value2]

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