



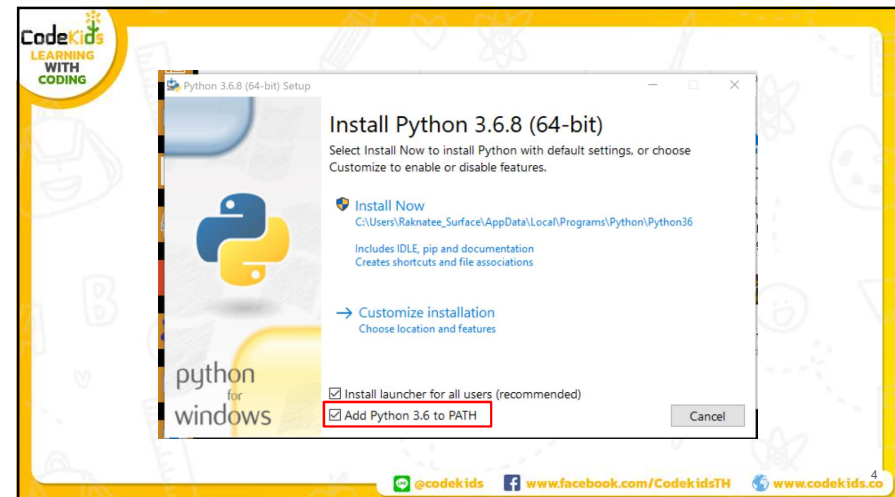
1



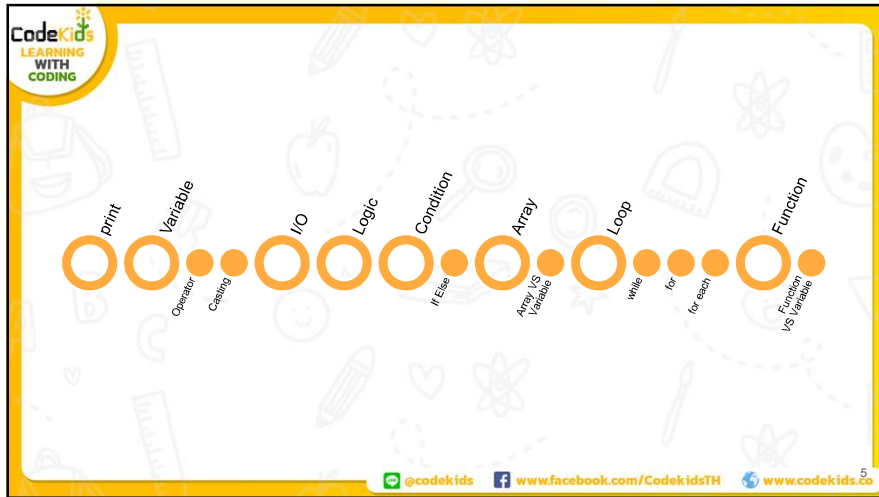
2



3



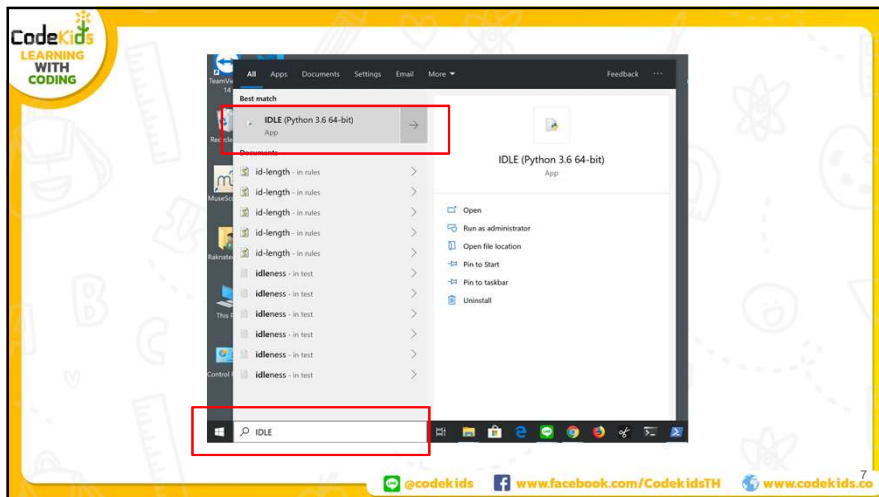
4



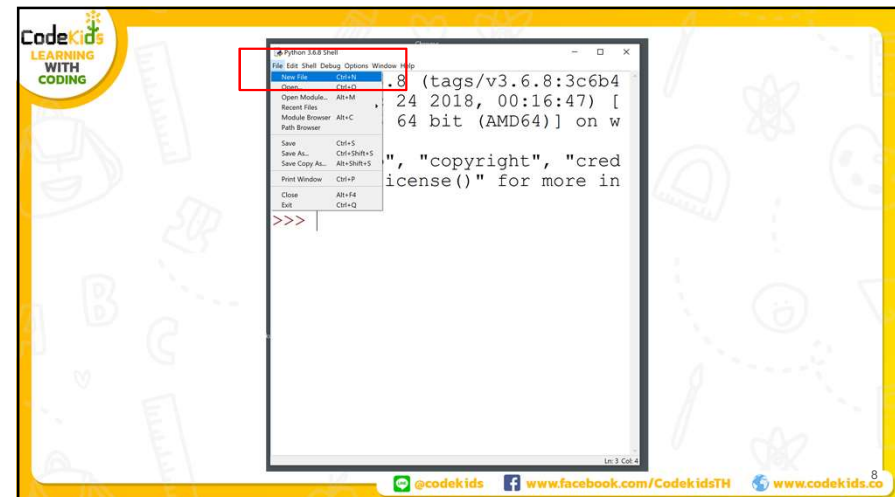
5



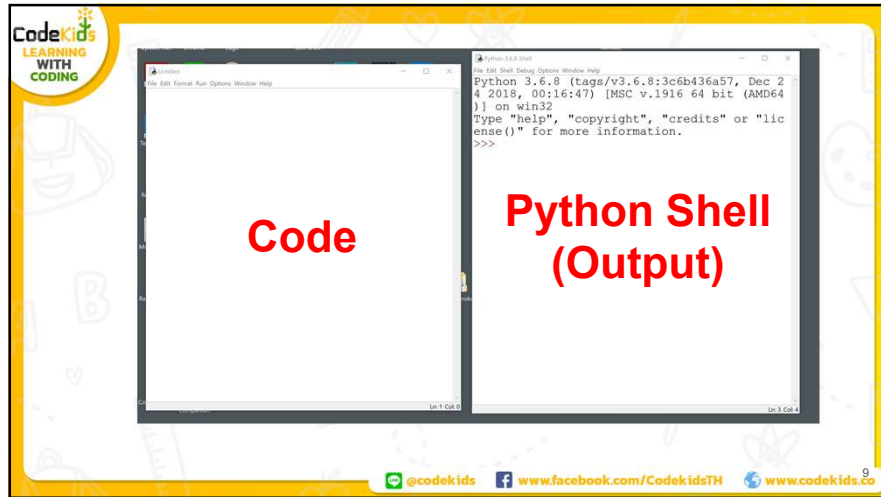
6



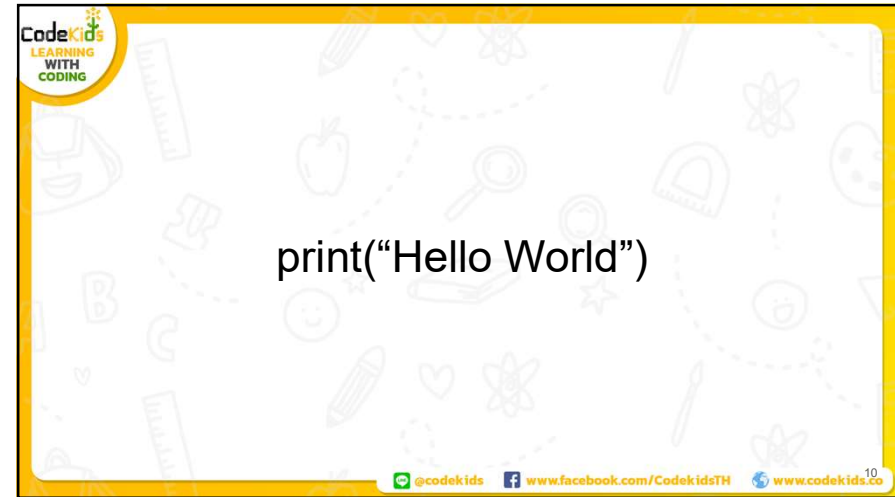
7



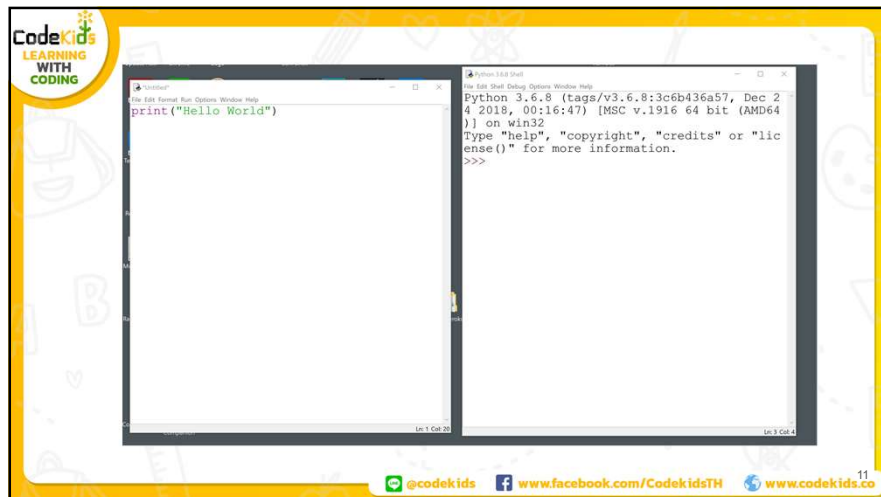
8



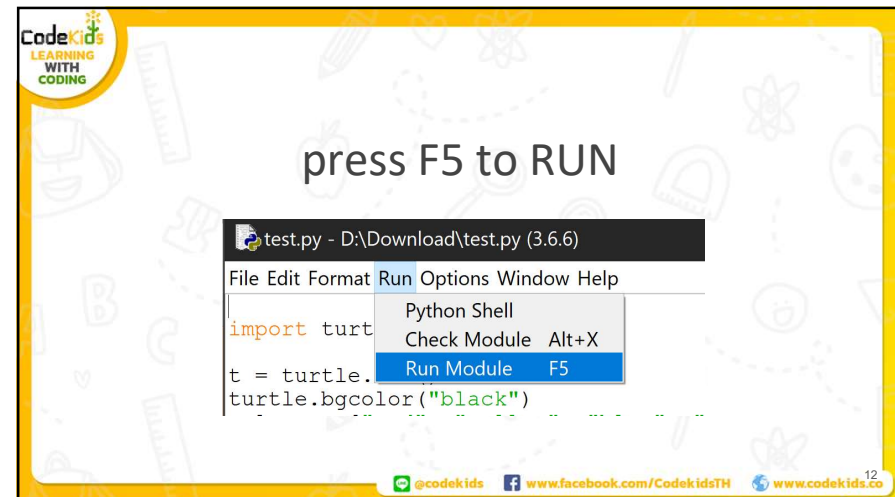
9



10



11



12

Code

```
print("Hello World")
```

Python Shell (Output)

```
Python 3.6.8 (tags/v3.6.8:3c6b43657, Dec 2
4 2018, 00:16:47) [MSC v.1916 64 bit (AMD64
)] on win32
Type "help", "copyright", "credits" or "lic
ense()" for more information.
>>>
===== RESTART: C:/Users/Rakatee_Surfac
//Desktop/mytp/test.py =====
Hello World
>>>
```

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Topic :


2. Variable

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14

Variable

A



10

"Hi"

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15

Variable

Int

3, 4, 100, 99

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Variable

Float/Double

3.5, 1.5, 1/2, 31.0

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Variable

String

"Dune", "Hello World"

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Variable

Boolean

True, False

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Variable

Int

10

!=

String

"10"

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20

Ex2

```
a = 10
```

21

Ex2.1

```
a = 10  
print(a)
```

22

Ex2.2

```
a = 10  
print(a)  
  
nickname= "Dune"  
print(nickname)
```

23

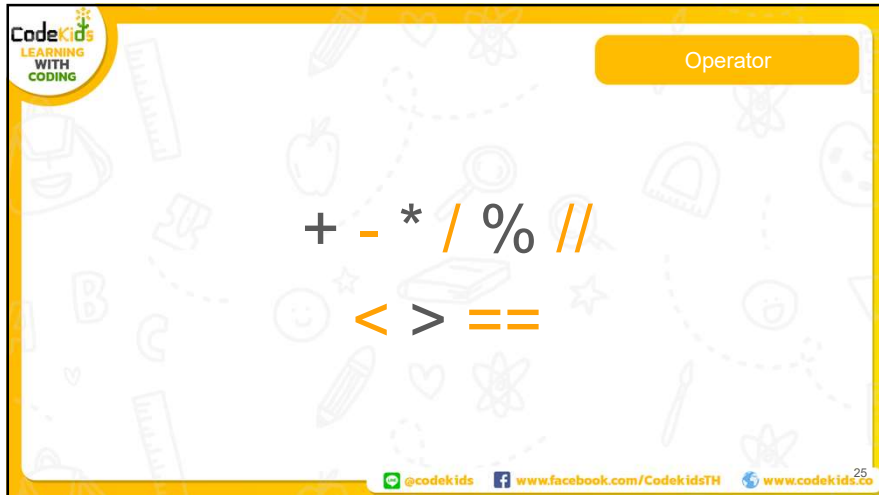
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Topic :

3. Operator

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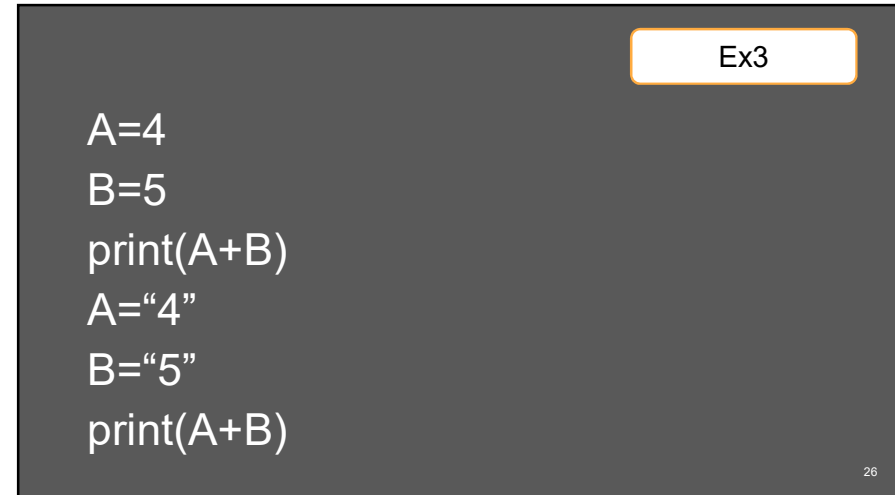
Operator

+ - * / % //

< > ==

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25

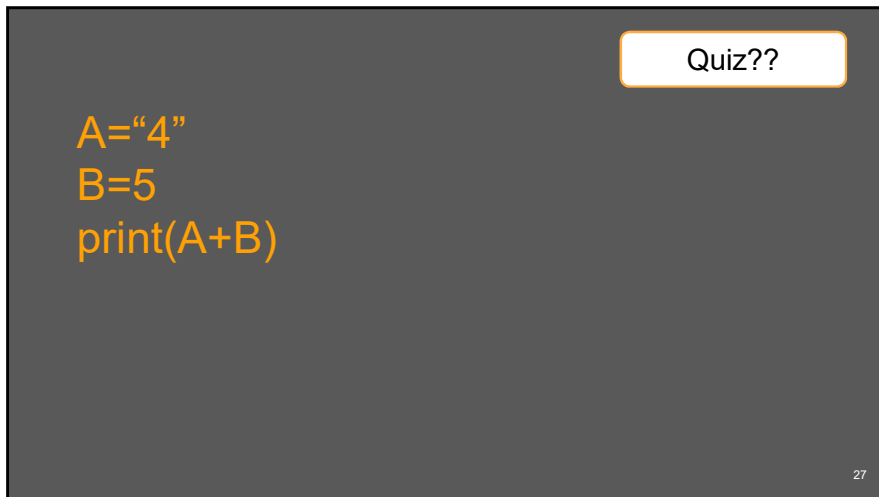


Ex3

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

26

26



Quiz??

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

27

27



Topic :

4. Casting

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Casting

```
A=4
A=str(A)    => "4"

B="5"
B=int(B)    => 5

C="4.5"
C=float(C)  => 4.5
```

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Ex4.1

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

30

30

Ex4.2

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

31

31

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Topic :

5. I/O

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32


```

a = input()
print(a)

```

Python 3.6.8 (tags/v3.6.8:3c6b436a57, Dec 24 2018, 00:16:47) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/rakna/Desktop/temp/testCodekids.py =====
emp/testCodekids.py

33

```

a = input()
print(a)

```

Python 3.6.8 (tags/v3.6.8:3c6b436a57, Dec 24 2018, 00:16:47) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/rakna/Desktop/temp/testCodekids.py =====
Welcome to CodeKids
Welcome to CodeKids
>>> |

34

A = input()
print(A)

Ex5.1

35

35

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

Ex5.2

36

36

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Topic :

6. Basic Logic

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True or False

Game

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$1 < 3$	$1 \leq 3$
$5 < 2$	$5 \leq 5$
$3 == 3$	$3 \geq 3$
$3 != 3$	$99 != 99$
$4 > 10$	$4 \leq 10$

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$1 < 3$	$1 \leq 3$
$5 < 2$	$5 \leq 5$
$3 == 3$	$3 \geq 3$
$3 != 3$	$99 != 99$
$4 > 10$	$4 \leq 10$

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40

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“Hello” == “hello”
3 == “3”
“Hi” == “Hi”
“Hehe” != “Hehe”

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“Hello” == “hello”
3 == “3”
“Hi” == “Hi”
“Hehe” != “Hehe”

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Ex

“and” gate	“or” gate
T and T == T	T or T == T
T and F == F	T or F == T
F and T == F	F or T == T
F and F == F	F or F == F

43

43

Ex

“not” gate

not T == F
not F == T

44

44



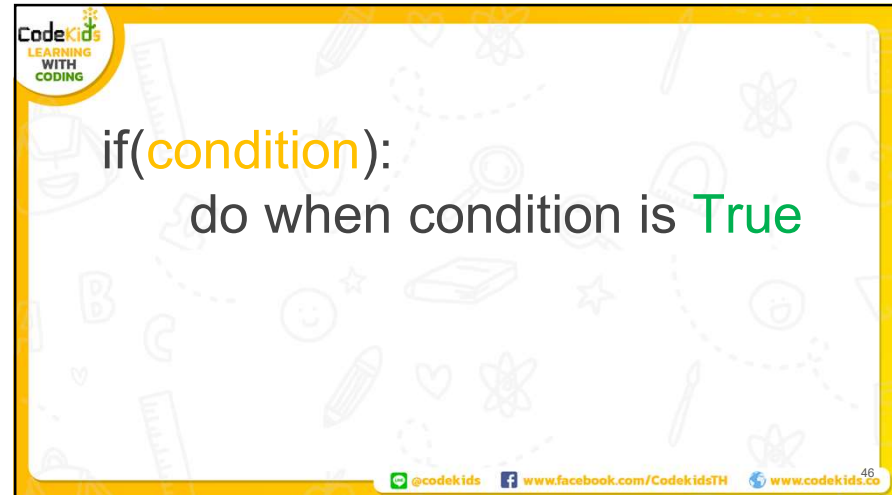
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Topic :

7. Condition

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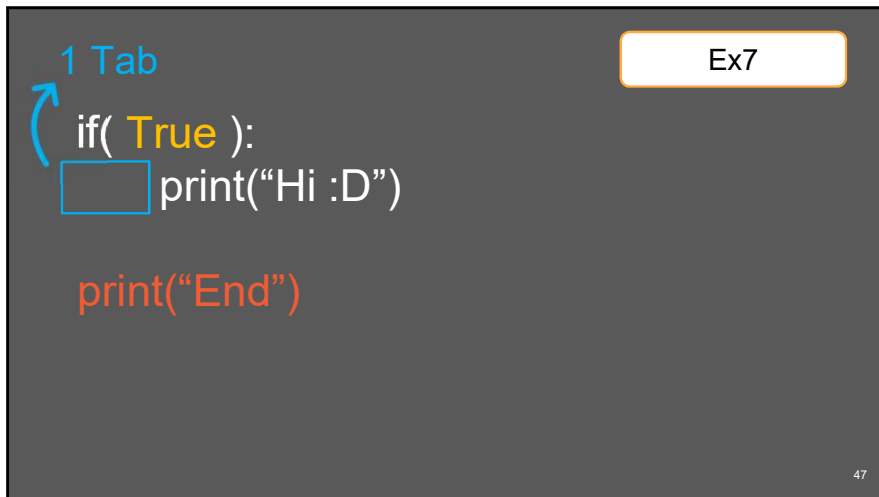


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if(condition):
do when condition is True

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1 Tab

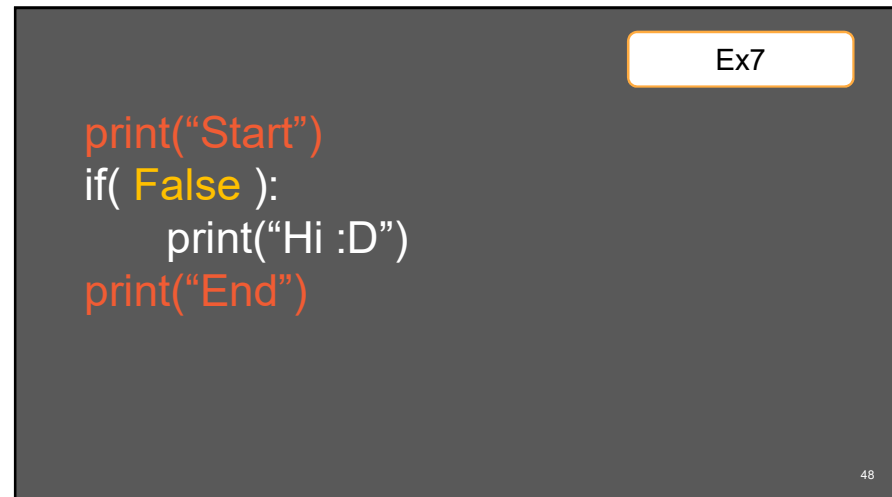
if(True):
 print("Hi :D")

print("End")

Ex7

47

47



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

Ex7

48

48

Ex7.1

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

49

Ex7.2

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

50

Ex7.2

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

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Ex7.3

```
A = 5  
B = 2  
  
if( A > B ):  
    print("A is more than B")
```

52

49

50

51

52


Ex7.4

```
A = 5
B = 2
```

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

53

53



if(condition):
do when condition is True
else :
do when condition is False

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Ex7.5

```
A = 5
B = 2
```

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

55

55

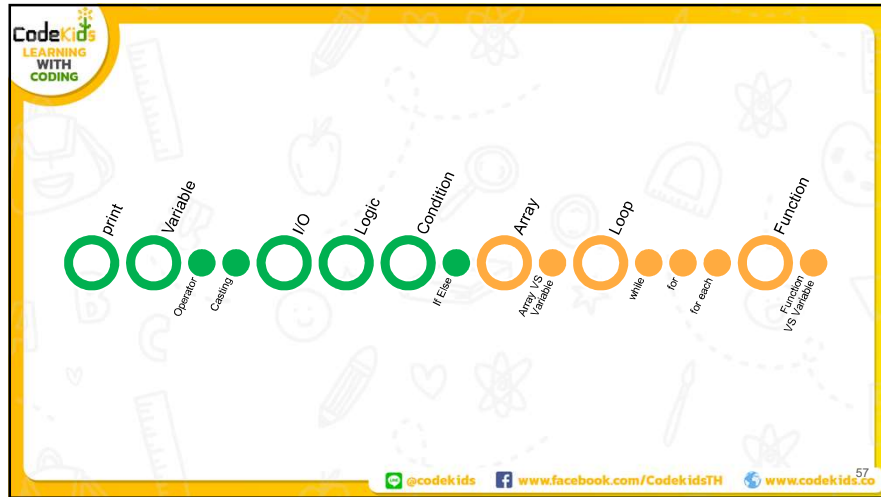
Ex7.5

```
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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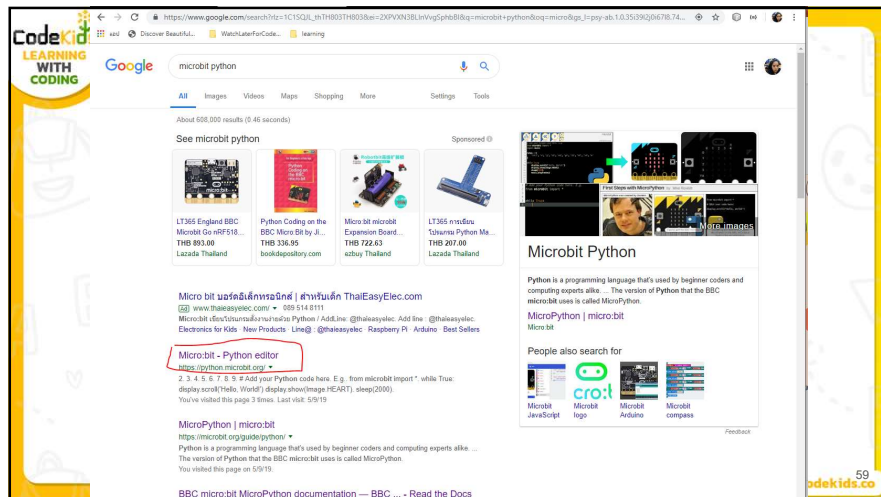
56



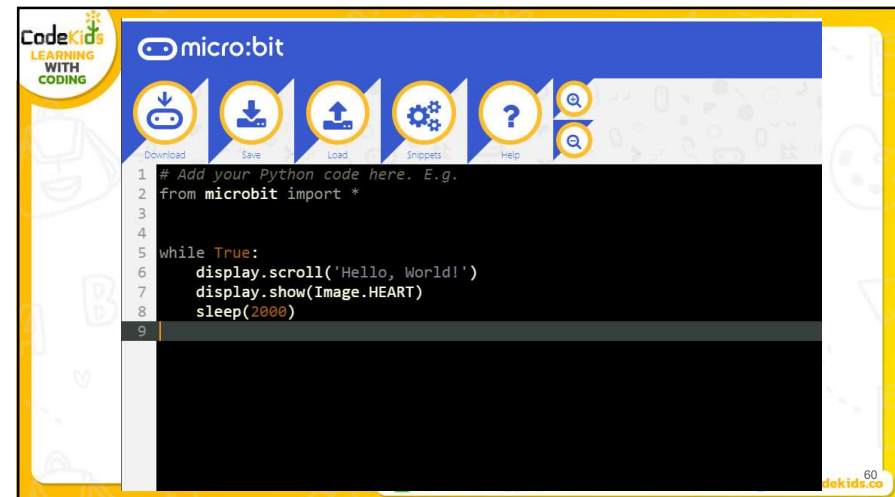
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59



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```

1 # Add your Python code here. E.g.
2 from microbit import *
3
4 countA=0
5 while True:
6     countA= countA+button_a.get_presses()
7     display.scroll(str(countA))
8
9
10

```

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CodeKids
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Workshop

press A decrease counter
press B increase counter

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CodeKids
LEARNING
WITH
CODING

```

1 # Add your Python code here. E.g.
2 from microbit import *
3
4 counter = 0
5 while True:
6     counter = counter - button_a.get_presses()
7     counter = counter + button_b.get_presses()
8     display.scroll(str(counter))
9

```

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Workshop

Use IF statement

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64



```

1 # Add your Python code here. E.g.
2 from microbit import *
3
4
5 while True:
6
7     if(button_a.get_presses())>0:
8         display.show(Image.HAPPY)
9     else:
10         if(button_b.get_presses())>0:
11             display.show(Image.SQUARE)
12

```

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```

1 # Add your Python code here. E.g.
2 from microbit import *
3 while True:
4
5     a=button_a.get_presses()
6     b=button_b.get_presses()
7     if(a>0 and b>0):
8         display.show(Image.FABULOUS)
9     else:
10         if(a>0):
11             display.show(Image.HAPPY)
12         else:
13             if(b>0):
14                 display.show(Image.SQUARE)
15             else:
16                 display.show(Image.NO)
17         sleep(500)
18
19

```

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Sample calculator

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

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Contact

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