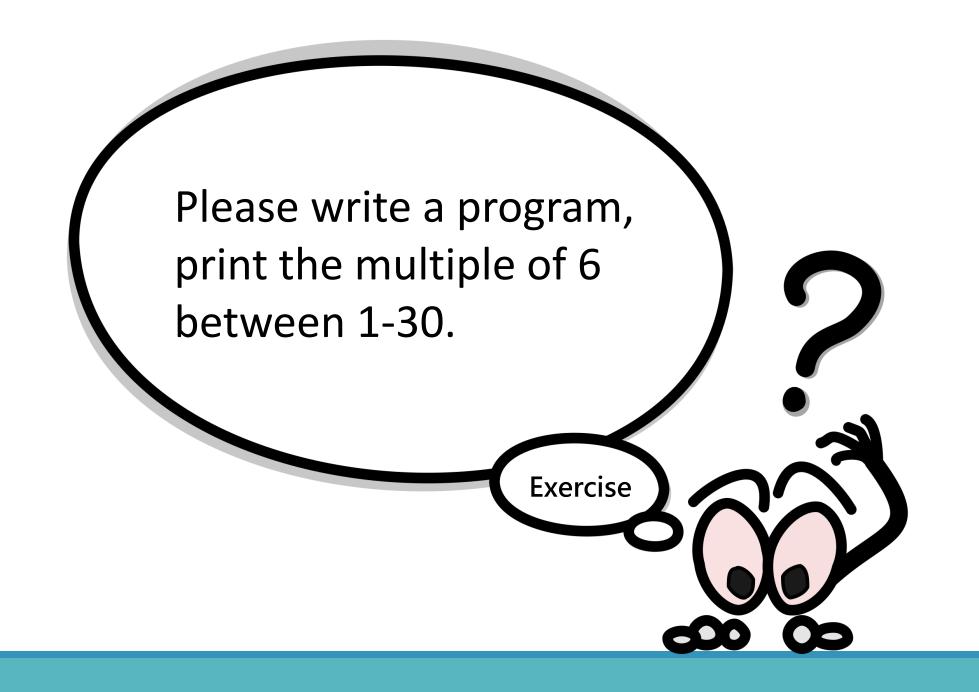
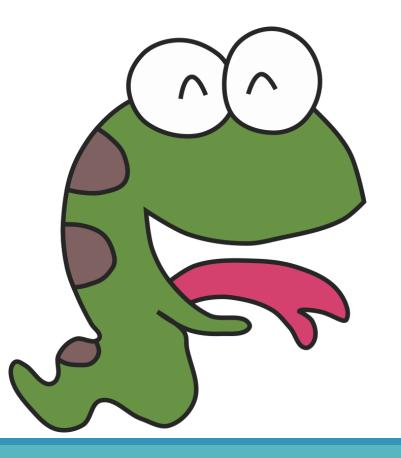


Python

if is a good helper for loop

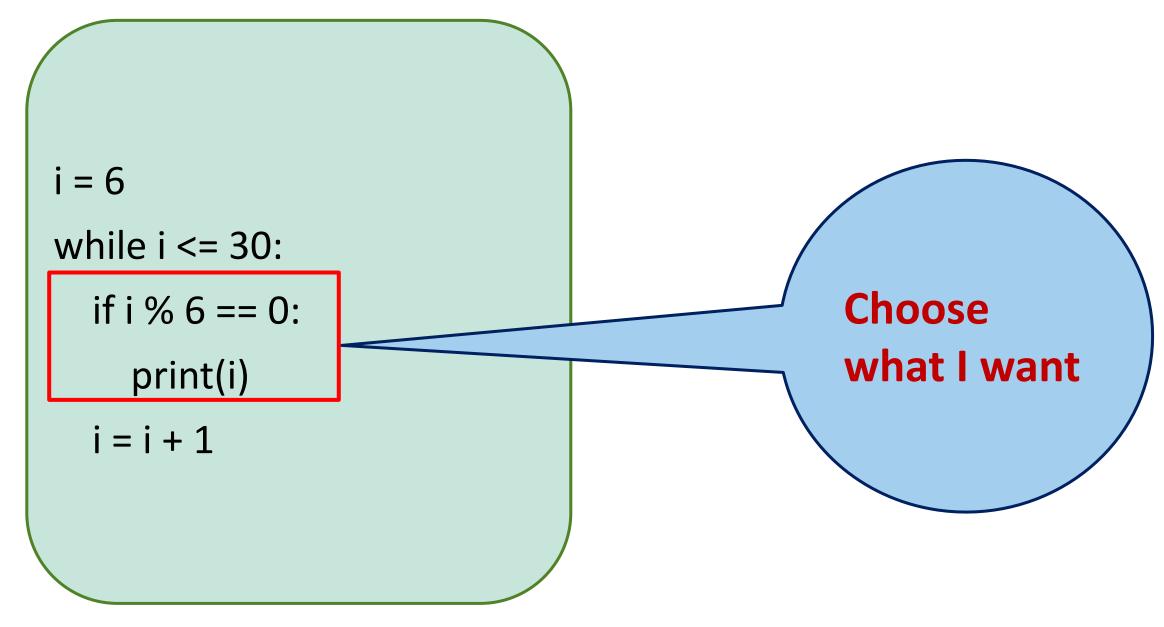




Python

Solve the problem with python







Review some used knowledge

Refuse line break

 Parameter control can be added: end is the parameter that controls line breaks

- The use of end parameter is as follow:
 - end=""need to be added after print
- Here is the sample reference

```
# sample of refuse line break print("2-3=5", end="") print("2-3=5")
```



Refuse line break, but there is a space between two data

 Parameter control can be added: end is the parameter that controls line breaks

• The use of end parameter is as follow:

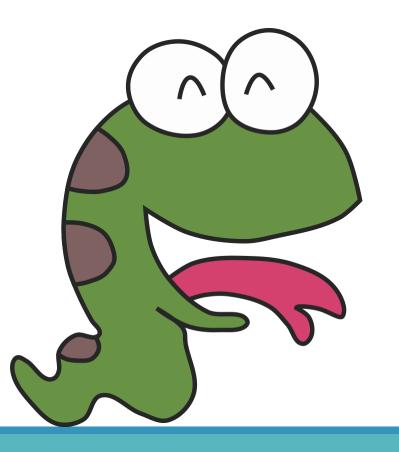
end=""need to be added after print

Add a blank space between double quotes

• Here is the sample reference

```
#sample of refuse line break
print("2-3=5", end="")
print("2-3=5")
```

There is a space in the middle



Python

Extended concepts

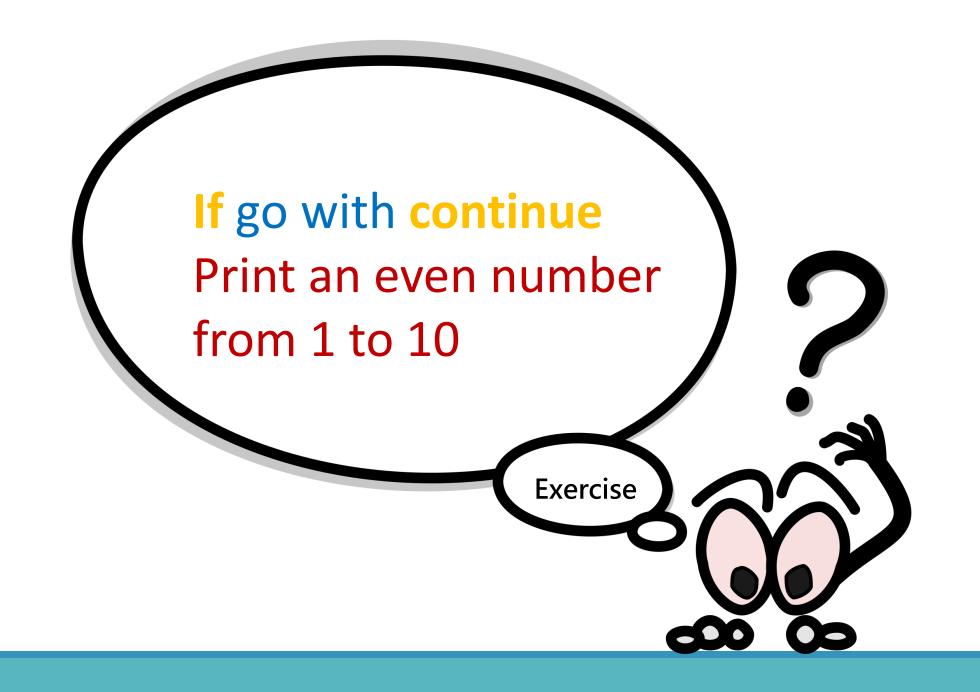


Good partner with if

continue

break







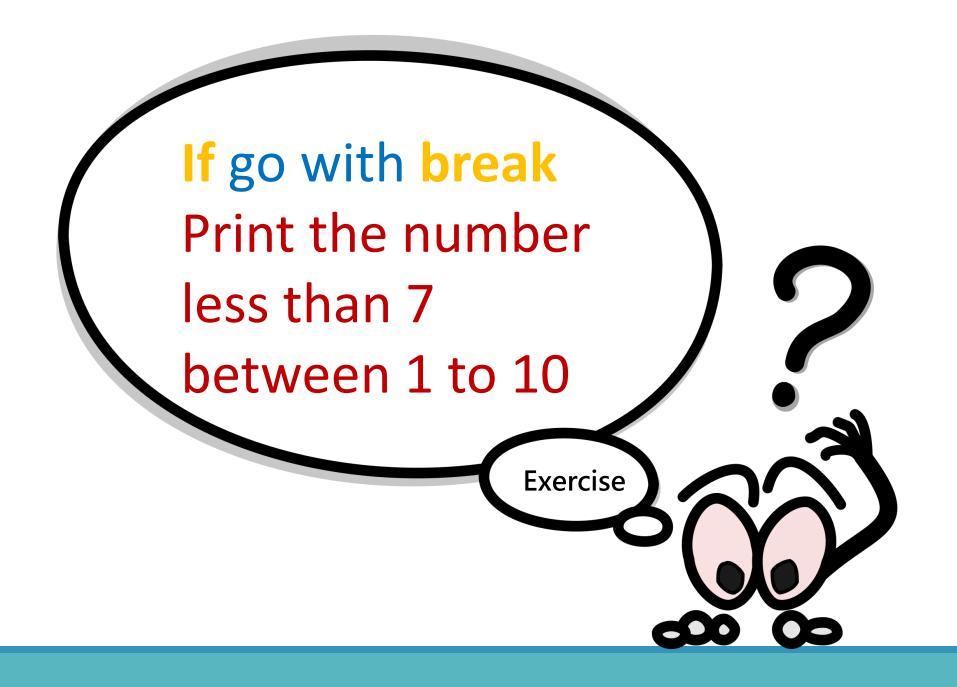
Print an even number from 1 to 10

- Loops from 1 to 10
- Print out the result when meet an even number.

```
i = 0
while i < 10:
    i = i + 1
    if i % 2 == 0:
    print(i)</pre>
```

- Print out the loop between 1 to 10
- But skip when meet an odd number.





Print the number less than 7 between 1 to 10

- Check the loop between 1 to 10
- Print the number less than 7

```
i = 0
while i < 10:
    if i < 7:
        print(i)
    i = i + 1</pre>
```

- Print out the loop between 1 to 10
- Break the loop when the number greater than 7



The application of if... break, whether two numbers are prime number

```
num1 = int(input())
num2 = int(input())
minValue = num1
if num2<minValue:
         minValue=num2
i = 2
                                          Just find one
match = 0
while i <= minValue:
         if num1 % i == 0 and num2 % i == 0:
                  match = 1
         break
         i = i+1
if match == 1:
         print( "{0} and {1} are not prime number.".format(num1, num2))
else:
         print( "{0} and {1} are prime number.".format(num1, num2))
```

 If there is a common factor between two numbers, no prime number of each other anymore.

Break means stop all the loop



- Review:
 - break: stop the all loop
 - continue: stop the current iteration of the loop, and continue with the next
- break / continue are order to control the loop. There are also three order in the for loop.