## Serie $N^{\circ} 2$

## Partie1 : Conditions

## Exercise 1

What is the output of the following snippet?

```
x = 5
y = 10
z = 8
print(x > y)
print(y > z)
```


## Exercise 2

What is the output of the following snippet?

```
x, y, z = 5, 10, 8
print(x > z)
print((y - 5) == x)
```


## Exercise 3

What is the output of the following snippet?

```
x, Y, z = 5, 10, 8
x, y, z = z, Y, x
print(x > z)
print((y - 5) == x)
```


## Exercise 4

What is the output of the following snippet?

```
x = 10
if x == 10:
    print(x == 10)
if x > 5:
    print(x > 5)
if x < 10:
    print(x < 10)
else:
```

```
print("else")
```


## Exercise 5

What is the output of the following snippet?

```
x = "1"
if x == 1:
elif x == "1":
    if int(x) > 1:
        print("two")
    elif int(x) < 1:
        print("three")
    else:
        print("four")
if int(x) == 1:
    print("five")
else:
    print("six")
```


## Exercise 6

What is the output of the following snippet?

```
x = 1
y = 1.0
z = "1"
if }x==y
    print("one")
if y == int(z):
    print("two")
elif x == y:
print("three")
else:
    print("four")
```


## Partie1: Boucles

## Exercise 1

Create a for loop that counts from 0 to 10, and prints odd numbers to the screen. Use the skeleton below:

```
for i in range(1, 11):
    # Line of code.
        # Line of code.
```

Create a while loop that counts from 0 to 10, and prints odd numbers to the screen. Use the skeleton below:

```
x = 1
while x < 11:
    # Line of code.
        # Line of code.
    # Line of code.
```


## Exercise 3

Create a program with a for loop and a break statement. The program should iterate over characters in an email address, exit the loop when it reaches the @ symbol, and print the part before @ on one line. Use the skeleton below:

```
for ch in "john.smith@pythoninstitute.org":
    if ch == "@":
        # Line of code.
    # Line of code.
```


## Exercise 4

Create a program with a for loop and a cont inue statement. The program should iterate over a string of digits, replace each 0 with x , and print the modified string to the screen. Use the skeleton below:

```
for digit in "0165031806510":
    if digit == "0":
        # Line of code.
        # Line of code.
    # Line of code.
```


## Exercise 5

What is the output of the following code?

```
n = 3
while n > 0:
    print(n + 1)
    n -= 1
else:
    print(n)
```


## Exercise 6

What is the output of the following code?

```
n = range(4)
for num in n:
```

```
    print(num - 1)
else:
    print(num)
```


## Exercise 7

What is the output of the following code?

```
for i in range(0, 6, 3):
    print(i)
```

