IFT-1015

Démo 3

Exercice 1

Ils affichent tous: il a dit "j'ai faim!"

Exercice 2

Uniquement le 3 fait une concaténation de textes.

1. addition de floats
2. TypeError: unsupported operand type(s) for +: 'str' and 'float'
3. concaténation de '1.2' et '-3-3-3-3'
4. TypeError: unsupported operand type(s) for -: 'str' and 'str'

Exercice 3

```
1 print(('x'*40 + '\n')*5)
```

Exercice 4

Uniquement le 5 affiche: 1/3 est 0.3333

1. 1/3 est 0.33330000000000004
2. 0.3333333333333333 est 0.3333
3. TypeError: unsupported operand type(s) for +: 'str' and 'float'
4. 1/3 est0.3333
5. 1/3 est 0.3333

Exercice 5

```
x >= 10 and x <= 20
x >= 0 and x <= 100 and y >= -x and y <= x
x >= 0 and x <= 100 and not (x == 50 or x == 55)
x % 10 == 0
y == 0 or x%y == 0
x < 1 or x > 9 or x%2 != 1
```

Exercice 6

```
n1 = int(input('nombre #1: '))
n2 = int(input('nombre #2: '))

if n1 <= 0 or n2 <= 0:
    print('erreur')
else:
    nMin = min(n1, n2)
    nMax = max(n1, n2)
    if nMax % nMin == 0:
        print('multiples facteur=', nMax // nMin)
    else:
        print('pas multiples')
```

Exercice 7

```
n = 10

while n >= 1:
    print(n)
    n = n-1
```

Exercice 8

```
n = 1

while n <= 10:
    print(n*n)
    n = n+1
```

Exercice 9

```
N = 81
i = 1

while i*i <= N:
    print(i)
    i = i + 1  # ou  i += 1
```

Exercice 10

```
n = 1
somme = 0

while n <= 1000:
    somme = somme + 1/n  # ou  somme += 1/n
    n = n + 1            # ou  n += 1

print(somme)
```

Exercice 11

```
n = 0
somme = 0

while somme < 10:
    n = n + 1            # ou  n += 1
    somme = somme + 1/n  # ou  somme += 1/n

print(n)
```

Exercice 12

```
n = 27

print(n)

while n != 1:
    if n%2 == 0:
        n = n // 2  # ou  n //= 2  ou  n >>= 1
    else:
        n = 1 + 3*n
    print(n)
```