**TD 3**

Sandbox : https://repl.it/languages/python3

**Exercice 1**

int\_array = [4, 10, 8, 14];

nb = 0

for i in range (0,4):

value = int\_array[i]

if 10 <= value <=15 :

nb = nb + 1

print (nb)

**Exercice 2**

int\_array = [4, 10, 8, 14, 20];

ajout = 0

nb = 0

for i in range (0,5):

nb = nb + int\_array[ajout]

ajout = ajout +1

nb = nb / len(int\_array)

print (nb)

**Exercice 3**

int\_array = [-4, 10, -8, -14, 20];

ajoutpos = 0

nbpos = 0

ajoutneg = 0

nbneg = 0

for i in range (0,5):

if int\_array[i] < 0:

nbneg = nbneg + int\_array[i]

#print(nbneg)

ajoutneg = ajoutneg +1

if int\_array[i] > 0:

nbpos = nbpos + int\_array[i]

#print(nbpos)

ajoutpos = ajoutpos +1

nbneg = nbneg / ajoutneg

print(nbneg)

nbpos = nbpos / ajoutpos

print(nbpos)

**Exercice 4**

x = int (input("Entrez la première valeur"))

y = int (input("Entrez la deuxième valeur"))

for i in range (0,31):

print(x)

x = x \* y

print(x)

**Exercice 5**

for i in range (0,21):

if y == x:

x = x + 1

x = x\*\*2

print(x)

**Exercice 6**

x = [6, 12, 18, -24, 30, 36, 42, 48, 54, -60, 66, 72, -78, 84, 90, 96, -102, 108, 114, 120, 126, 132, 138, 144, 150, -156, 162, 168, 174, 180, 186, 192, 198, -204, 210, 216, 222, 228, 234, 240, 246, 252, 258, 264, 270, 276, 282, 288, 294, -300]

pos = 0

neg = 0

first1 = True

first2 = True

for i in range (0,len(x)):

if x[i] > 0 and first1 == True:

pos = x[i]

first1 = False

if x[i] > pos:

pos = x[i]

if x[i] < 0 and first2 == True:

neg = x[i]

first2 = False

if x[i] < neg:

neg = x[i]

print(neg)

print(pos)