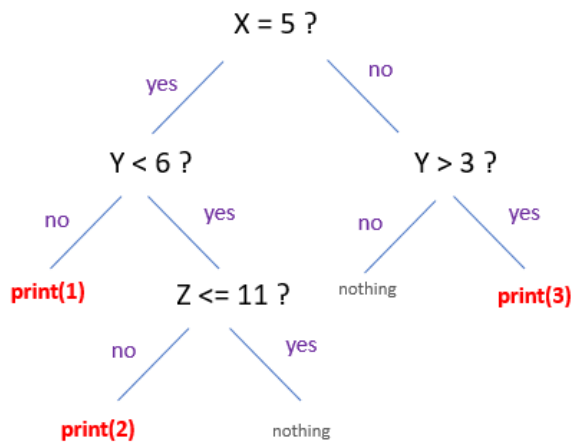


## C3-S8 –PRACTICE

### EX1

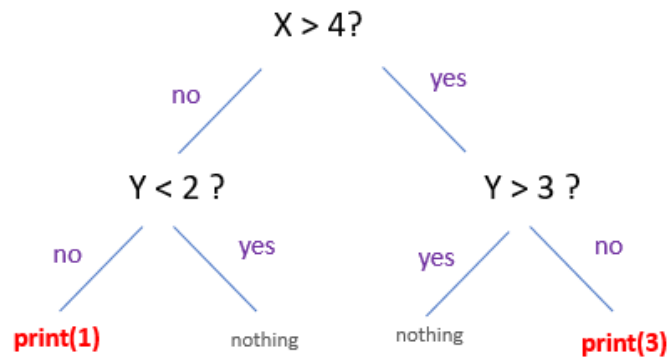
Convert this tree to python



```
x = 0
y = 0
z = 0
if x == 5:
    if y > 3:
        print(3)
elif y < 6:
    if z >= 11:
        print(2)
else:
    print(1)
```

### EX2

Converts this tree to python



```

x = 0
y = 0
z = 0
if x >4:
    if y <3:
        print(3)
    else:
        print("nothing")
else:
    y>2
    print(1)
  
```

### EX3

- Create variable name “**nbRepeat**” and set the values to 5
- Print « Hello World » following variable « **nbRepeate** » times

It should print this:

```

Hello World
Hello World
Hello World
Hello World
Hello World
  
```

```

nbRepeat = int(input())
for i in range(nbRepeat):
    print("Hello World")
  
```

### EX4

Create variable name “**number**” set the value to 20

As long as when the number still greater than 5

- Print “**number**”

- Increment number of -2

It should print this:

20  
18  
16  
14  
12  
10  
8  
6

```
number = 20
while number > 5:
    print(number)
    number += -2
```

#### EX5

- Create 2 variables
  - name = "Tola"
  - age = 21

You shall write the value of those 2 variables with some text, as show on the result

It should print this:

**My name is : Tola, I am : 21 years old !**

```
name = "Tola"
age = 12
print( "My name is:",name,"I am:" , age, "yeeears old!")
```

#### EX6

Get the number **entered from keyboard** and store it into a variable **userMessage**

- If the **userMessage** is lower than 0, display "Negative Number!"
- Else display "Positive Number"

### Example:

If user enters -1:

**Negative Number!**

If user enters 5:

**Positive Number!**

```
number = int(input())
if number < 0 :
    print("Negative Number!")
else:
    number > 0
    print("Positive Number")
```

### EX7

Example: To see "Dog" number must be in the range: ] -infinity, 25[

```
if number < 25 :
    print(« Dog »)
elif number <= 30 :
    print(« Cat »)
else :
    print(« Cow »)
```

Q1: What must be the range of number to see "Cat"?

] infinity, 30 [

Q2: What must be the range of number to see "Cow"?

] infinity-[

### EX8

What will be print if value equal to 10?

```
if value >= 5 :
    print(« Apple »)
elif value <= 10 :
    print(« Banana »)
```

Answer: **Apple**

### EX9

What will be print if value equal to 10?

```
if value >10 :  
    print(« Red »)  
if value <= 10 :  
    print(«Blue»)
```

Answer:

Blue

### EX9

- Enter a string **text** in the console
- **n** is the length of **text**
- Print **n** times of the character "X"

Case 1:

```
>test  
>X X X X  
text = input("")  
n=len(text)  
for i in range(n):  
    print("x",end="")
```

Case 2:

```
>tryagain  
>X X X X X X X X  
text = input("")  
n = len(text)  
for i in range(n):  
    print("x",end="")
```

### EX10

- Enter a number **n** in the console
- Print a reversed triangle of "X"

Exemple:

```
>5  
>X
```

```
>X X
>X X X
>X X X X
>X X X X X
```

```
text =int(input())
for i in range(1, text + 1):
    for j in range(1, i +1):
        print("x",end="")
    print("")
```

```
>2
>X
>X X
```

```
text = int(input())
for i in range(1, text + 1):
    for j in range(1, i +1):
        print("x",end="")
    print("")
```

## EX11

- Enter a number **n** in the console
- Print a reversed using numbers (see example)

Example:

```
>5
>12345
>1234
>123
>12
>1
```

```
n=int(input())
for i in range(n,0, -1):
    for z in range(1, i+1):
        print(z,end="")
    print("\n")
```

```
>2
>12
>1
```

```
n=int(input())
for i in range(n,0, -1):
    for z in range(1, i+1):
        print(z,end="")
    print("\n")
```

## EX12

- Enter a string **word** in the console
- Print "X" on the console (see example)

Exemple:

```
>hello  
>XXXXX
```

```
text = input()  
for i in range(len(text)):  
    print("x",end="")
```

```
>testing  
>XXXXXXXX
```

```
text = input()  
for i in range(len(text)):  
    print("x",end="")
```

## EX13

- Enter a string **word** in the console
- Enter the number **n** in the console
- If **word** equal to "good" and the number between 7 and 15, it's will be print "It's good"
- If **word** equal to "bad" and the number lower than 7 or greater than 15, it's will be print "It's bad"

Exemple:

```
>good  
>10  
>It's good
```

```
text = input()  
number = int(input())  
print("It's good")
```

```
>bad  
>6  
>It's bad
```

```
text = input()  
number = int(input())  
print("It's bad")
```

## EX14

- Enter a number **n** in the console
- Print a reversed using numbers (see example)

Exemple:

```
>5  
>1  
>2 3
```

```
>4 5 6
>7 8 9 10
>11 12 13 14 15
```

```
rows = int(input())
number = 1

for i in range(1, rows+1):
    for j in range(1, i+1):
        print(number, end=" ")
        number += 1
    print("")
```

Example :

```
>3
>1
>2 3
>4 5 6
```

```
rows = int(input())
number = 1

for i in range(1, rows+1):
    for j in range(1, i+1):
        print(number, end=" ")
        number += 1
    print("")
```