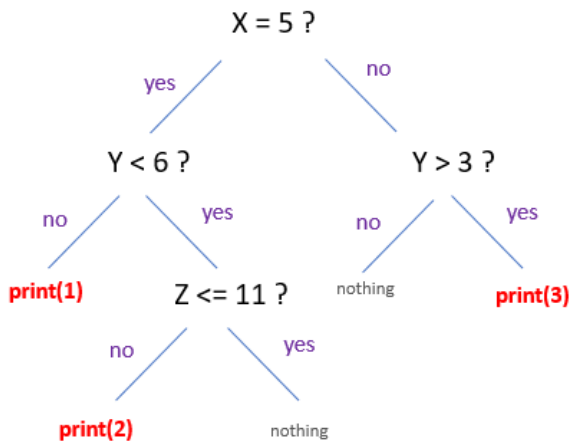


## C3-S8 –PRACTICE

### EX1

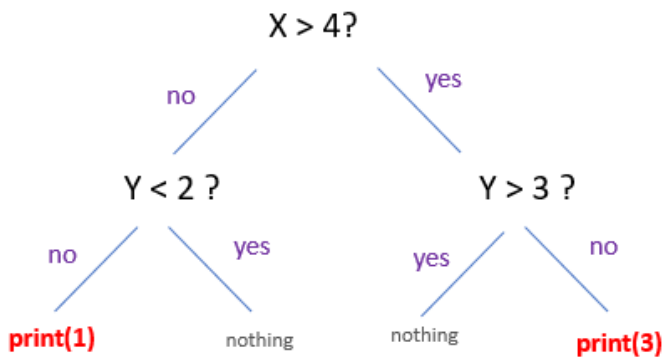
Convert this tree to python



```
x=0
y=0
z=0
if x==5:
    if y>3:
        print(3)
    else:
        print("nothing")
elif y<6:
    if z<=11:
        print("nothing")
    else:
        print(2)
else:
    print(1)
```

### EX2

Converts this tree to python



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

```
for i in range(5):
    print("Hello")
```

#### 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=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=("My name is:Tola")
age = ("I am 21 years old !")
print(name, age)
```

#### 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!**

```
num=int(input())
if num>0:
    print("Positive number")
elif num<0:
    print("Negative 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"?

[ 30, +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

### EX10

- 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
```

Case 2:

```
>tryagain  
>X X X X X X X X
```

```
text=input()  
result=""  
for i in range(len(text)):  
    result+="X"  
print(result)
```

### EX11

- 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
```

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

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

### EX12

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

Example:

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

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

```
number= int(input("Enter number of rows:"))
for i in range(number,0,-1):
    for z in range(1, i+1):
        print(z, end= " ")
    print("\r")
```

### EX13

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

Exemple:

```
>hello
>XXXXX
```

```
>testing
>XXXXXXXX
```

```
text=input()
result=""
for i in range(len(text)):
    result+="X"
print(result)
```

### EX14

- 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"

Example:

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

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

```
num=int(input("Enter your number"))
if num>=7 and num<=15:
    print("It's good")
elif num<7 or num>15:
    print("It's bad")
```

### EX15

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

Example:

```
>5
>1
>2 3
>4 5 6
>7 8 9 10
>11 12 13 14 15
```

Example :

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

```
rows = int(input("Enter number of rows: "))
number = 1

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