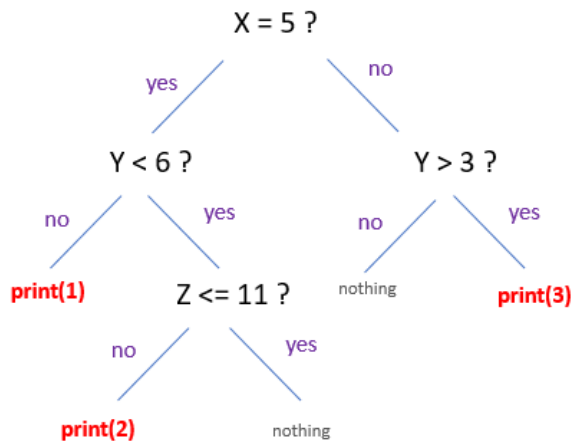


C3-S8 –PRACTICE

EX1

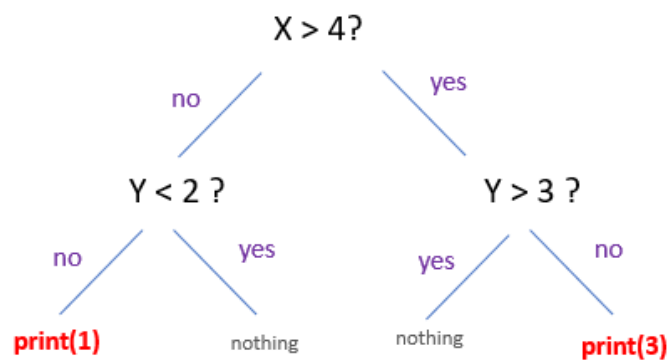
Convert this tree to python



```
x=6
y=4
z=2
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=4
y=2
z=3
if x>4:
    if y<3:
        print(3)
elif 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
```

```
name="nbRepeat"
for i in range(5):
    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
```

```
nuber=20
for i in range(8):
    print(nuber)
    nuber=nuber-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=21
print("my name is: ",name,"i am",age, "years 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!

```
text=int(input("ener your number"))
if text<0 :
    print("Nagative number")
else:
    print("Positive nuber")
```

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"?

To see "cat" number must be in the range: [26, 30]

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

To see "cow" number must be in the range: [30,+infinity[

EX8

What will be print if value equal to 10?

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

Answer:

```
print( "Apple")
```

EX9

What will be print if value equal to 10?

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

Answer:

```
print("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
```

Case 2:

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

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

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
```

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

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

EX11

- 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")
```

EX12

- 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)
```

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
```

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

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

Example :

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

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