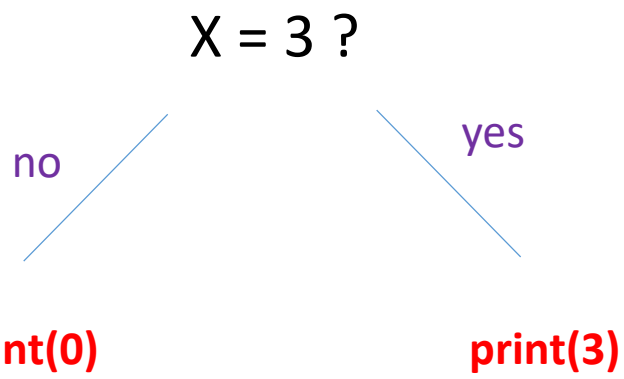
BOOLEAN

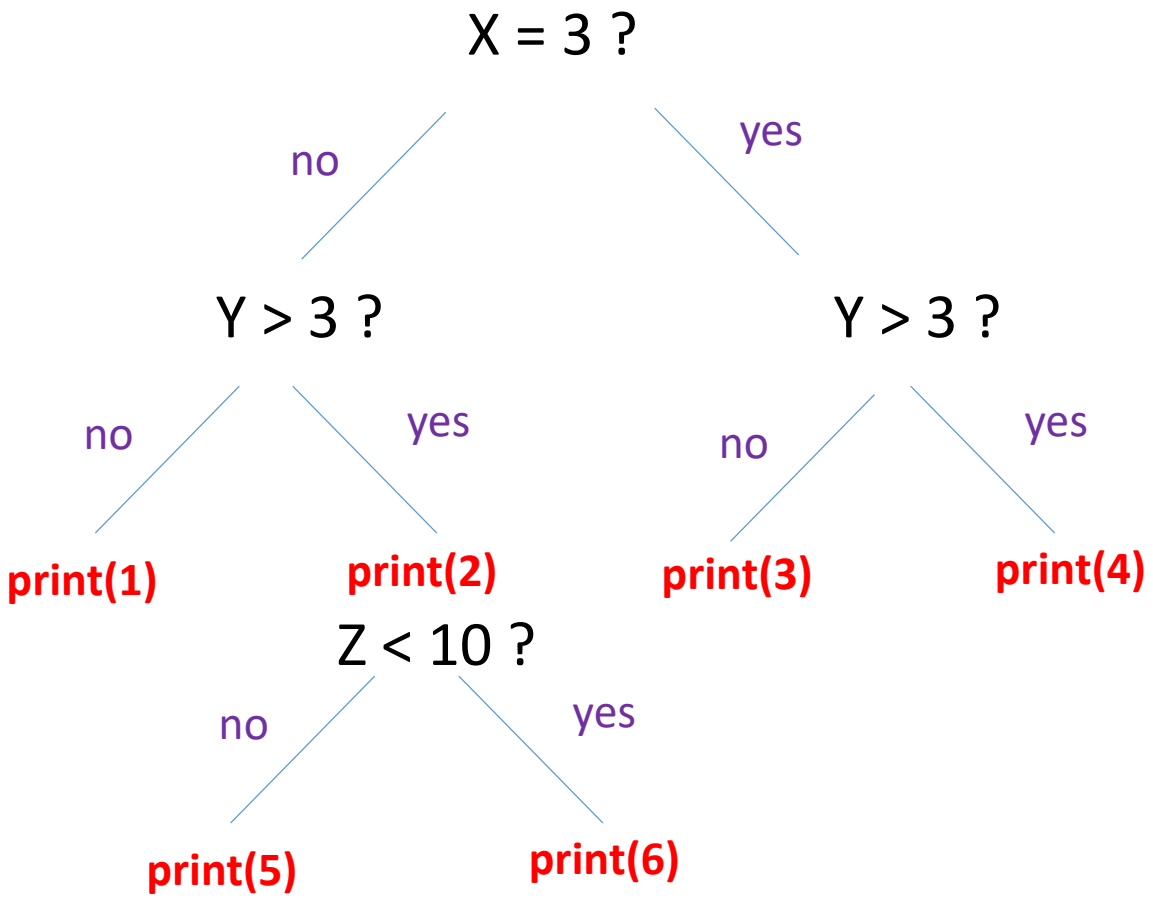
#1



Code this tree in Python

```
X = int (input())
If x ==3:
      print(3)
Else:
       print(0)
```

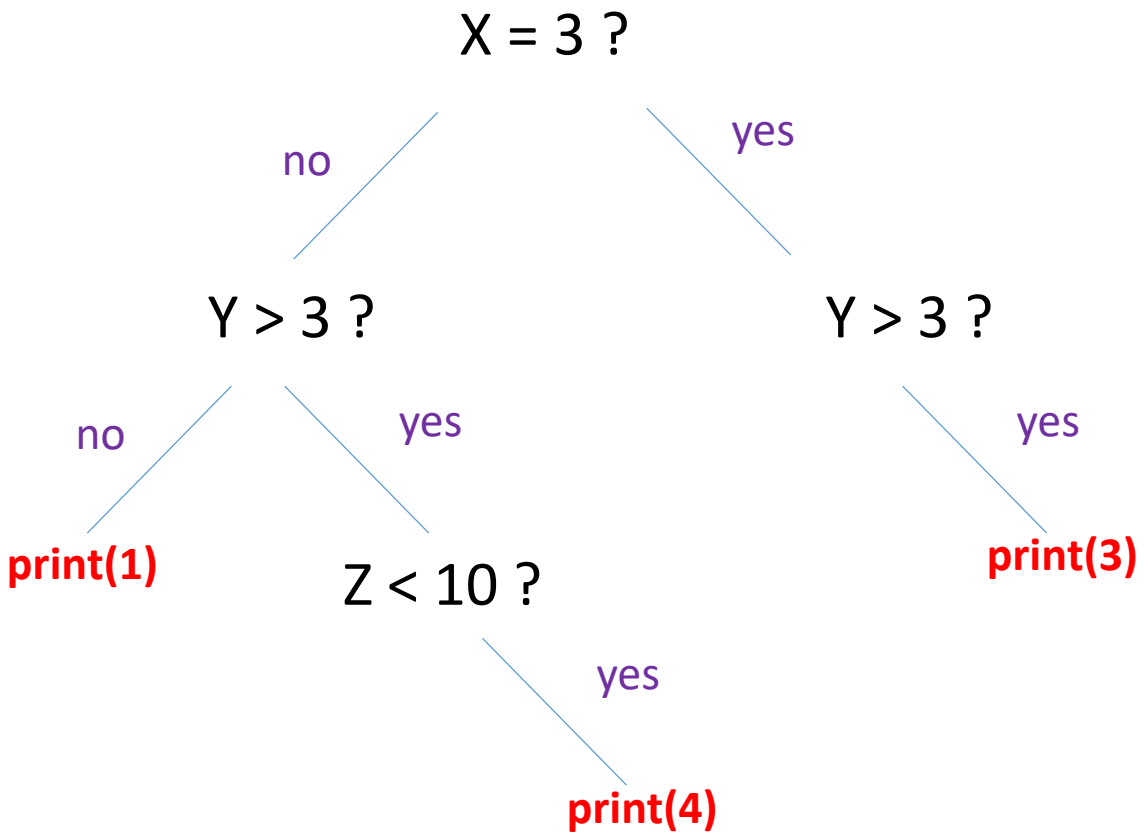
#2



Code this tree in Python

```
X = 0
Y = 0
Z = 0
 if   X == 3
          If  y >3 :
                print(4)
           else :
                print(3)
eles:
           if y >3:
                          print(2)
                          if z<10:
                                        print(6)
                          else:
                                        print(5)
           else:
                          print(1)
```

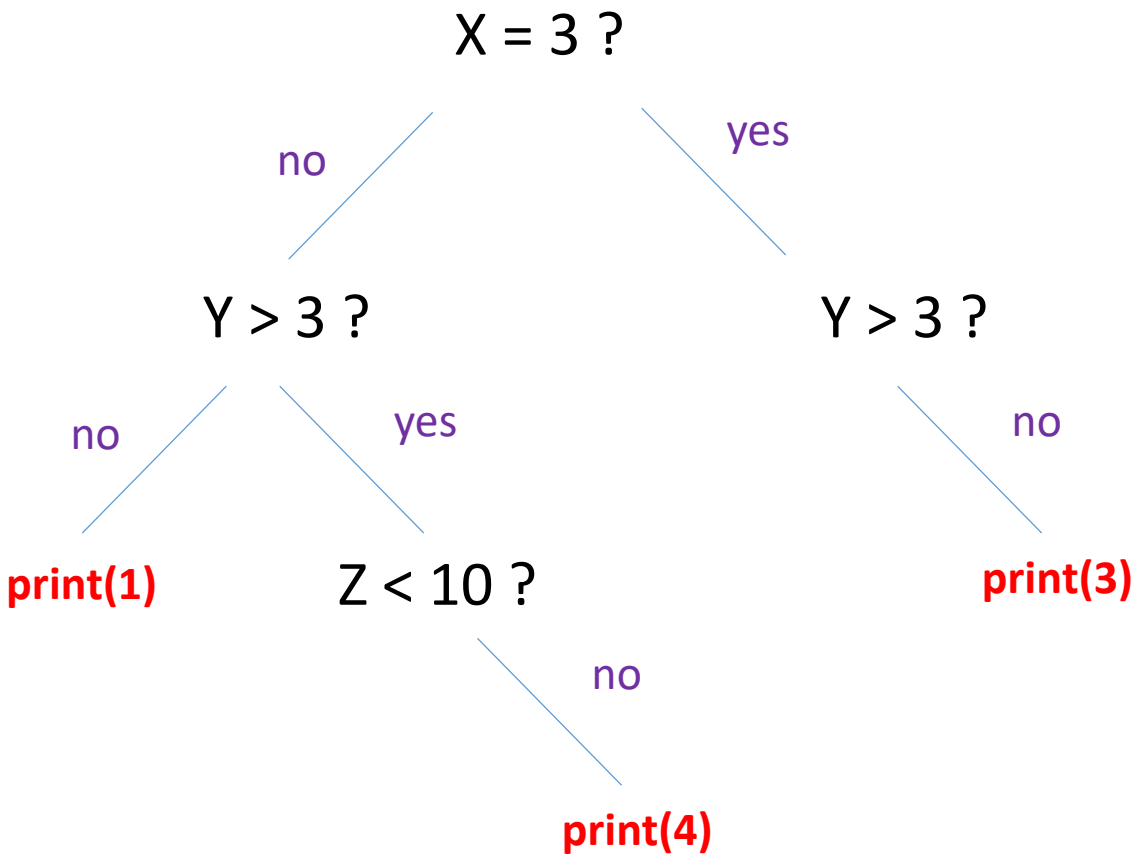
#3



Code this tree in Python

```
X = 0
Y = 0
Z = 0
If x == 3 :
        if y >3:
                print(3)
elif  y >3 and z <10 :
        print(4)
else:
        print(1)
```

#4



Code this tree in Python

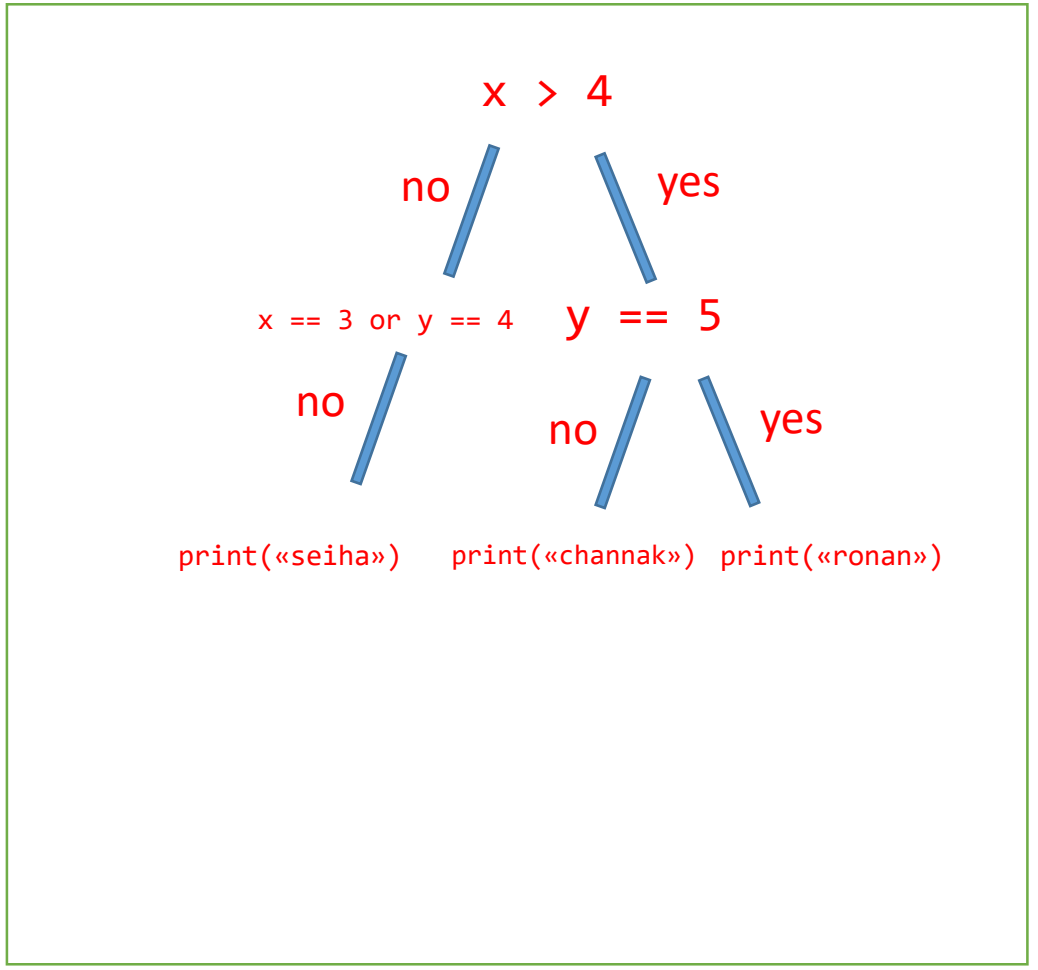
```
X = 0
Y = 0
Z = 0
If x == 3:
        if y >3:
                print(3)
elif: y>3 and !(z < 10):
        print(4)
else:
        print(1)
```

#5

```
if x > 4:
      if y == 5
            print(«ronan»)
      else
            print(«channak»)

else:
      if x == 3 or y == 4
            print(«seiha»)
```

Draw the tree of condition of this code



#6 Write python !!!

Store in variable “value1” this : `x greater than 5 and y equal to 9`

Store in variable “value2” this : `Y is equal to 1 or 2`

Store in variable “value3” this : `Z is one of the following 5, 7, 9`

Value1

x >5 and y==9

Value 2

y==1 or y ==2

Value 3

z==5

z==7

z==9

#7 Write python !!!

Write a program that say "valid" if a number entered by keyboard
if **lower than 0 or between 10 and 15**

You must use 2 variable :

- one to store if number of lower than 0
- one to store if between 10 and 15

```
x = int(input())
if x <0 :
    if x > 10 and x<15:
        print ("valid")
else:
    print("valid")
```

#8 Write python !!!

1 - Enter a number

2 - Display:

“**to low**” if the number displayed is lower than 1

“**Good job**” if the number is equal to 10

“**To high**” is the number is greater than 10

You must use 3 boolean variables

```
x = int(input())
if x<1:
   print("Good job")
elif x==10:
   print("to low")
else:
   x>10
   print("Tohigh")
```

IF – ELIF – ELSE

Exercise 1

Q1 What will be the result if x is equal to 5 ?

```
if x > 4:
    print("red")
if x < 7:
    print("blue")
```

```
red
blue
```

Q2 What will be the result if X is equal to 5 ?

```
if x > 4:
    print("red")
elif x < 7:
    print("blue")
```

```
red
```

Exercise 2

Q1 What will be the result if x is equal to 8 ?

Q2 What will be the result if x is equal to 1 ?

```
if x > 7:
      print("one")
elif x > 2:
      print("two")
```

one

Exercise 3

Q1 What will be the result ?

```
x  = 8
print ( x > 8 or (x > 5 and x < 7))
```

False

Exercise 4

Q1 What will be the result ?

```
x  = 4
print ( (x < 3 or x > 1) and x < 9)
```

True

Exercise 5

Q1

What shall be the range of value to display '**red**' ?

*Example : To display '**blue**', value must be in the range [11, +infinity[*

```
if value > 10:
  print("blue")
else:
  print("red")
```

[9, - infinity[

Exercise 6

Q1 What will be the result ?

```
a = 8
b = 12
if a == 12:
  print("beautiful")
  if b >= 12:
      print("cute")
```

cute

Exercise 7

*Example : To display '**red**' X must be in the range]-infinity, 6]*

Q1

What must be the range of X to display '**green**' ?

]-infinity, 10]

Q2

What must be the range of X to display '**blue**' ?

]-infinity,23]

Q3

What must be the range of X to display '**pink**' ?

[24, +infinity[

```
if x<=6:
  print("red")

elif x<10:
  print("green")

elif x<=23:
  print("blue")

else:
  print("pink")
```

Exercise 8

Q1 What will be the result ?

```
isGreater = 4 > 9
if isGreater :
    print("A")
else:
    print("B")
```

B

Exercise 9

Q1 What will be the result ?

```
isGreater = 4 > 9
value = 50
print(isGreater or value > 20)
```

True