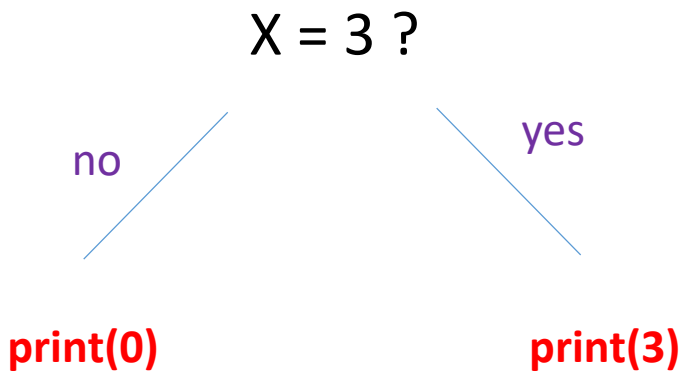
BOOLEAN

#1

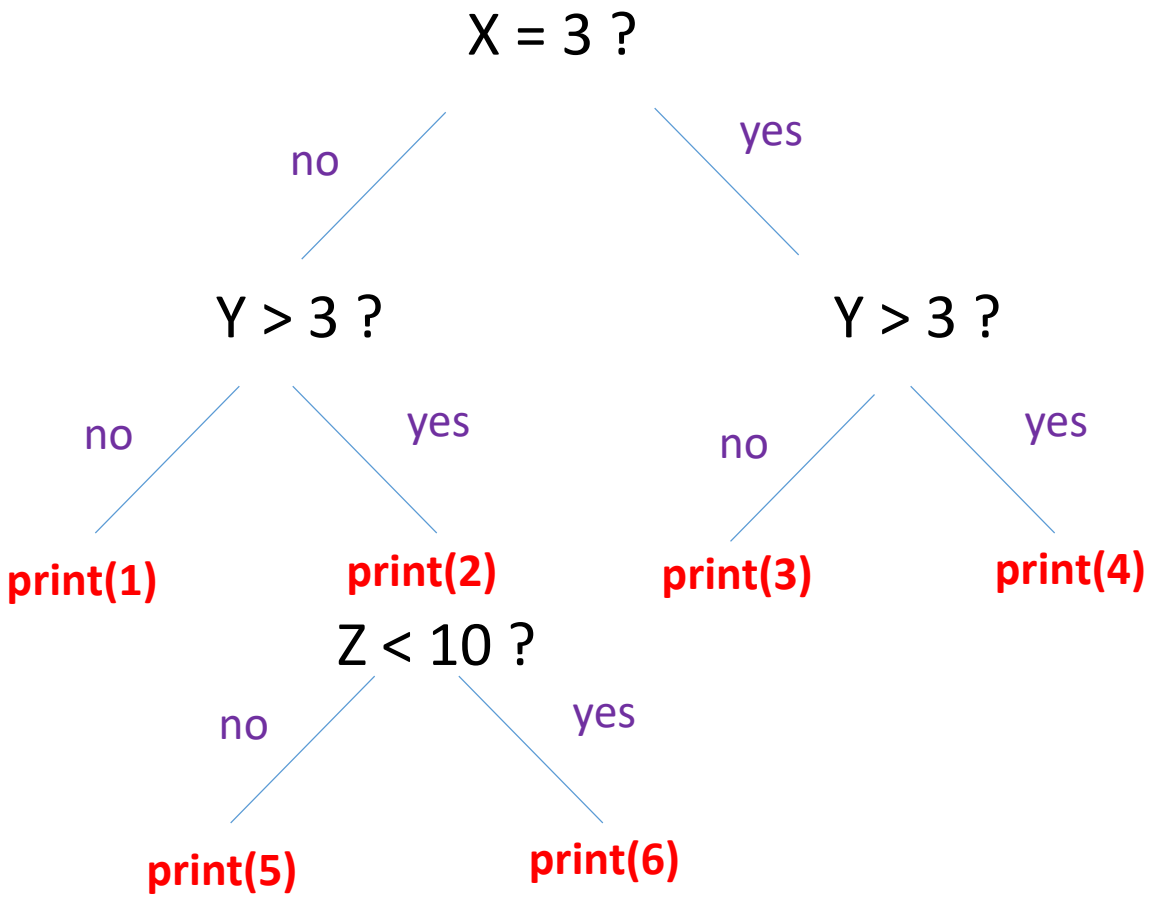


Code this tree in Python

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

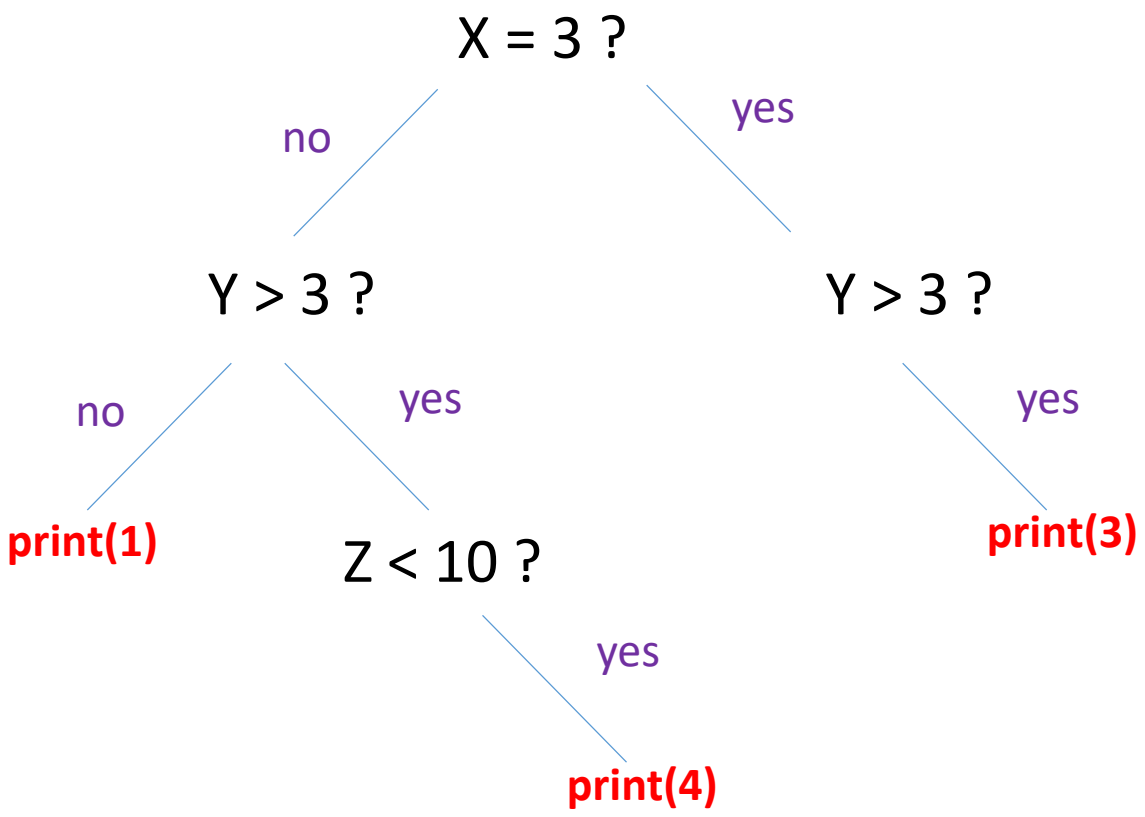
#2

Code this tree in Python




```
X=3
Y=3
Z=8
If x==3
    if y>3:
        print(“4”)
    else:
        print(“3”)
Else:
    if y>3:
        print(“2”)
        if z<10:
                print(“6”)
        else:
                print(“5”)
     else:
        print(“1”)
```

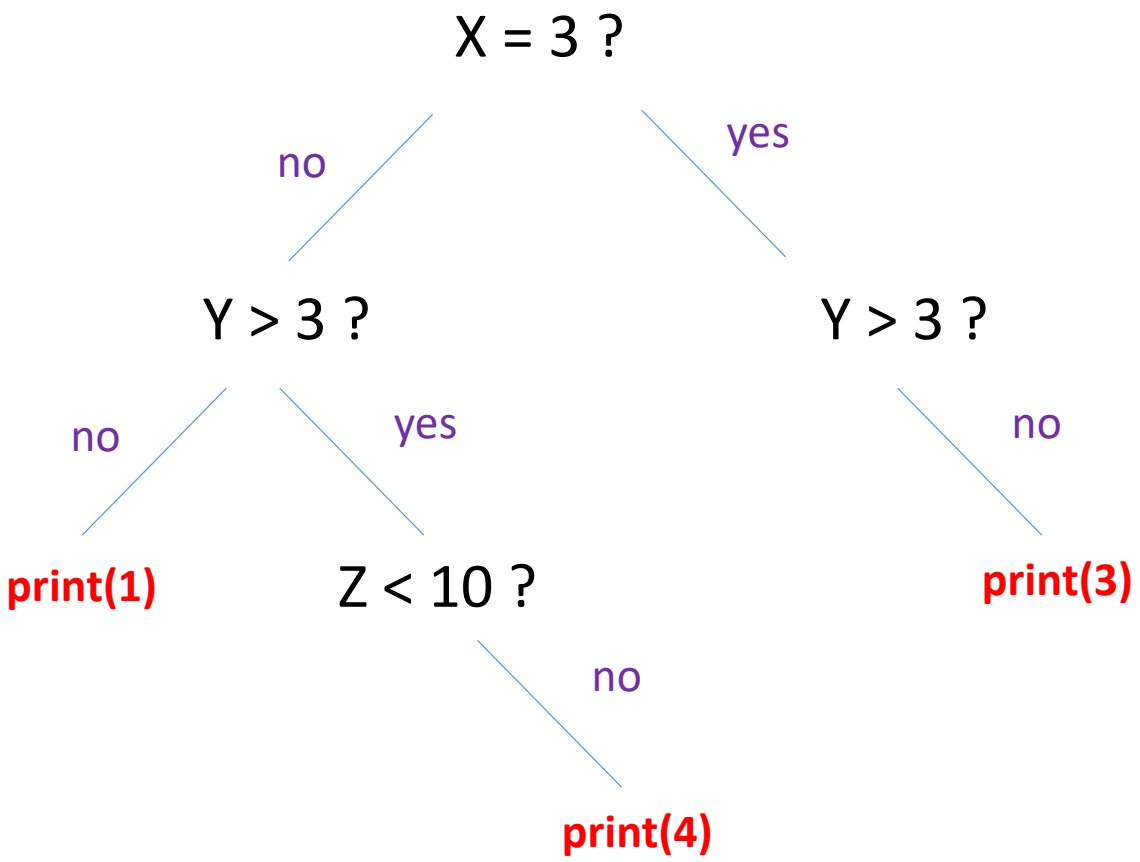
#3



Code this tree in Python

```
X=4
Y=4
Z=6
If x==3:
    if y>3:
        print("3")
Else:
    if y>3 and  z<10:
        print("4")
    else:
        print("1")
```

#4



Code this tree in Python

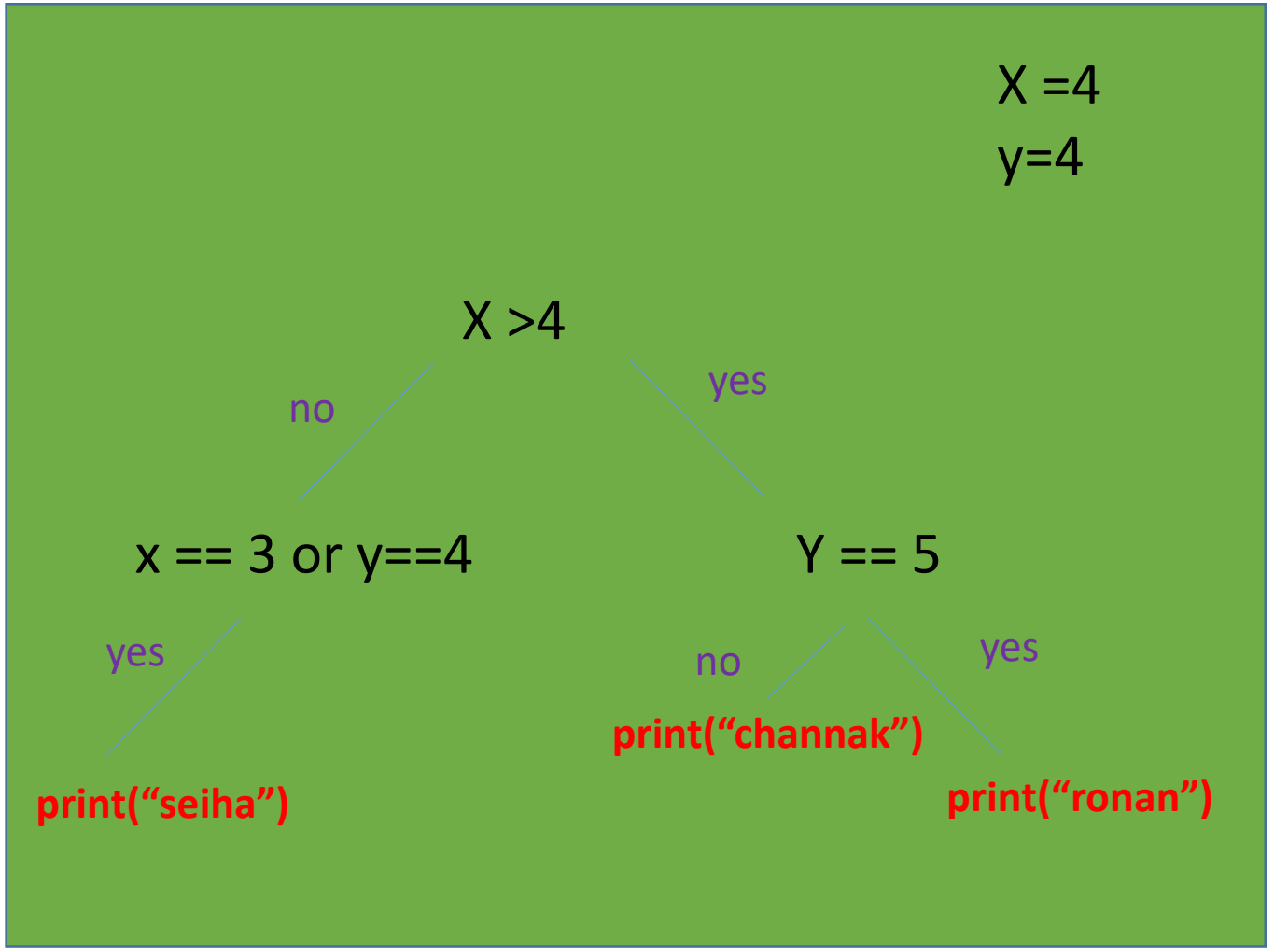
```
X=4
Y=5
Z=10
If X = 3:
    if y<3:
        print(3)
    else:
        if y>3:
            if !( z<10):
                print(4)
            else:
                print(1)
```

#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`

```
X > 5 and y ==9
Y==1 or y==2
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

```
number=int(input("enter n"))
if number <0:
    print("Valid")
elif number >=10 and number <=15:
    print("Valid")
else:
    print("No")
```

#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

```
number=int(input("enter a number:"))
if number <=1:
    print("To low")
elif number ==10:
    print("Good job")
elif number >10:
    print("To hight")
```

You must use 3 boolean variables

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")
```

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

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

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

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

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")
```

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

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

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

```
if x > 7:
      print("one")
elif x > 2:
      print("two")
=>no answer
```

Exercise 3

Q1 What will be the result ?

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

```
=>result=fail
```

Exercise 4

Q1 What will be the result ?

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

```
=>rsult=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")
```

*To display '**red**', value must be in the range] –infinity,9[*

Exercise 6

Q1 What will be the result ?

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

Print(“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**' ?

*To display '**green**' X must be in the range]-infinity, 9]*

Q2

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

*To display '**blue**' X must be in the range]-infinity, 23]*

Q3

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

*To display '**pink**' X must be in the range [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")
```

```
The answer is B
```

Exercise 9

Q1 What will be the result ?

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

```
The answer is True
```