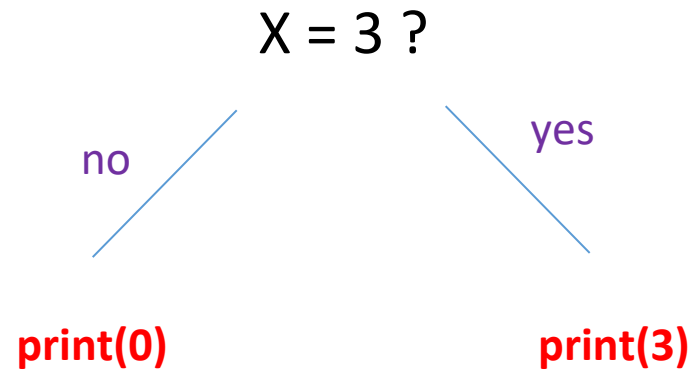


BOOLEAN

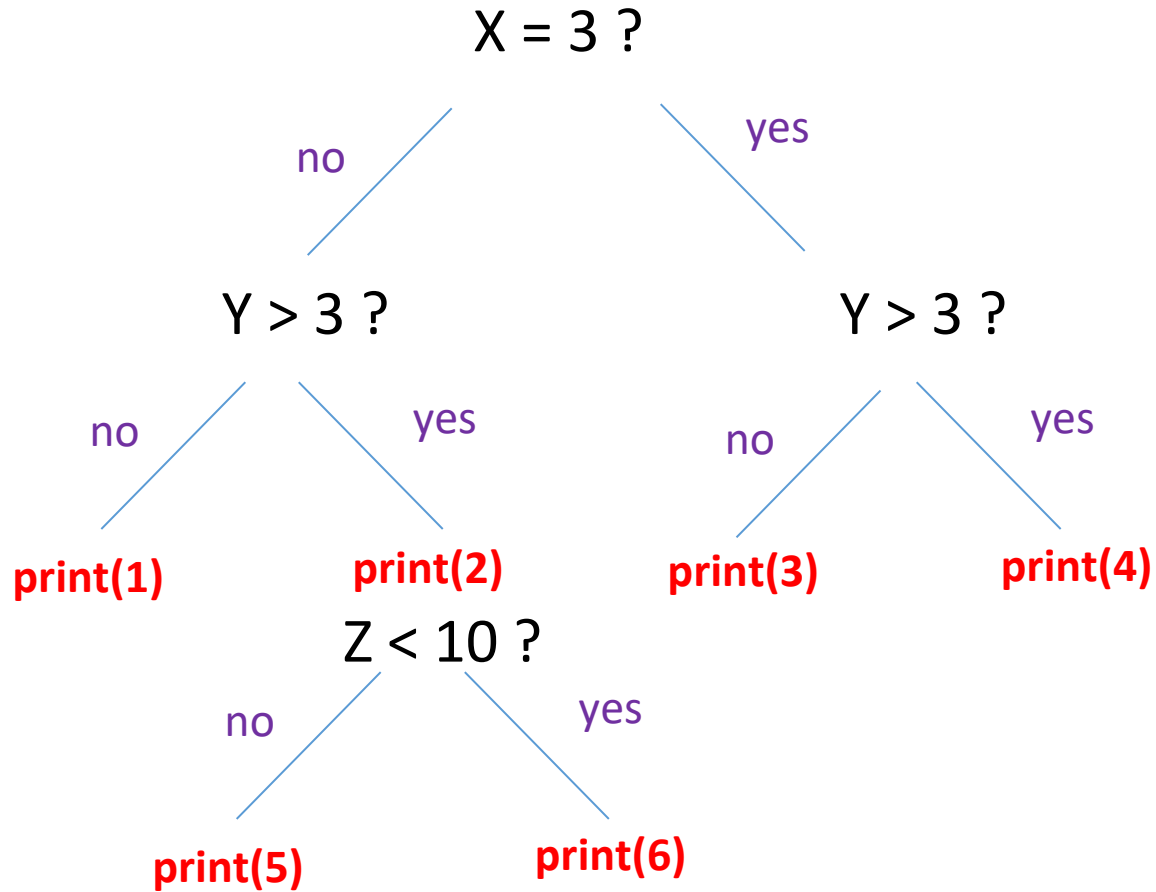
#1



Code this tree in Python

```
x=3
if x==3:
    print(3)
else:
    print(0)
```

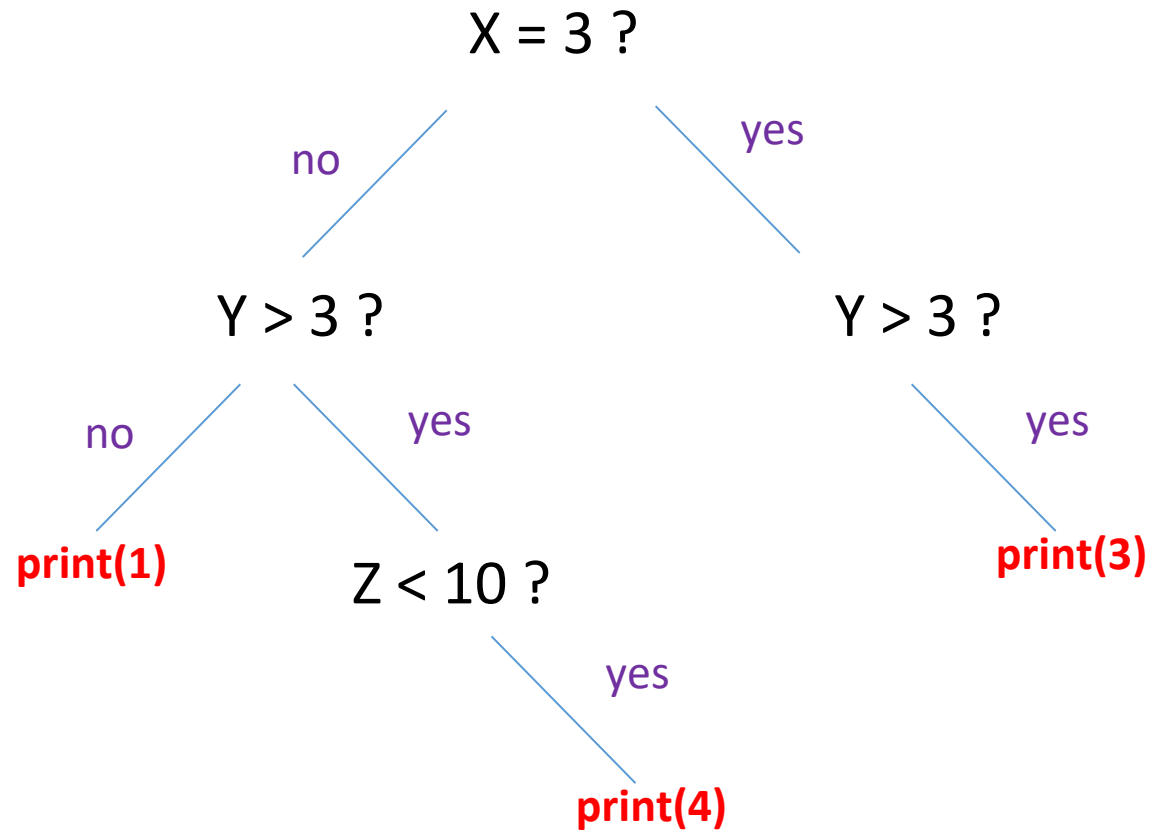
#2



Code this tree in Python

```
x=3
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)
```

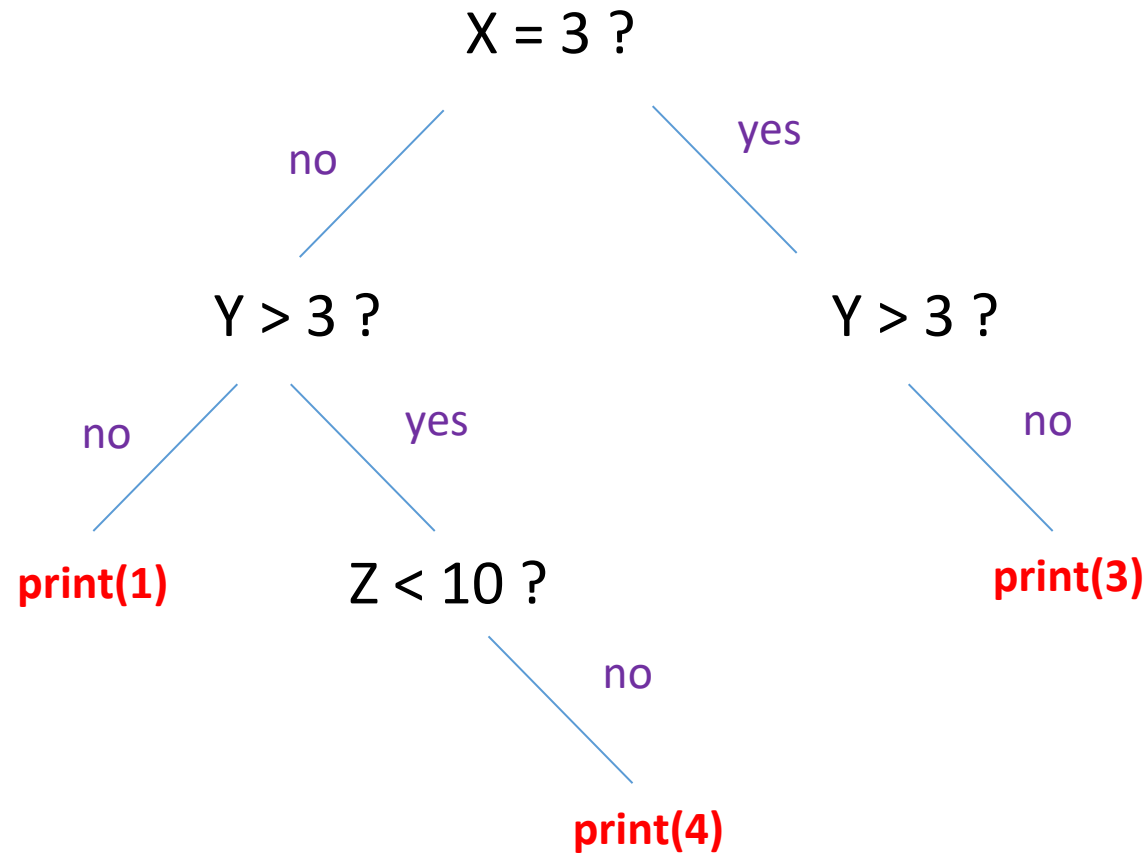
#3



Code this tree in Python

```
x=3
if x==3:
    if y>3:
        print(3)
else:
    if y>3:
        if z<10:
            print(4)
        else:
            print(1)
```

#4



Code this tree in Python

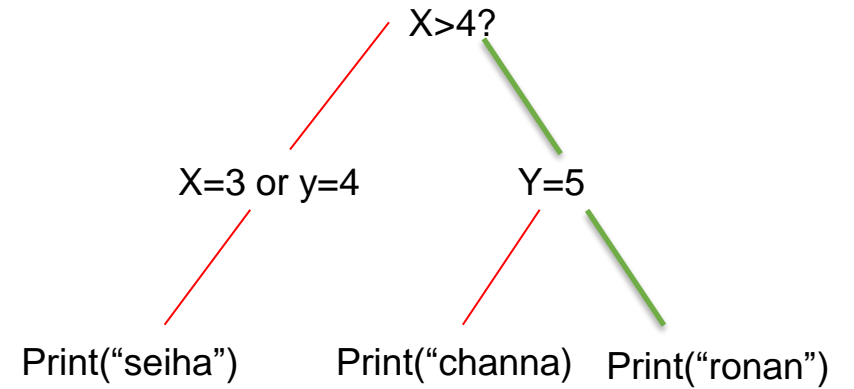
```
x=3
if x==3:
    if y>3:
        print(3)
    else:
        if y>3:
            if z<10:
                print(4)
            else:
                print(1)
```

#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

```
if >5 and y==9:  
    print(value1)
```

Store in variable “value2” this :

Y is equal to 1 or 2

```
if y==1 or y==2:  
    print(value2)
```

Store in variable “value3” this :

Z is one of the following 5, 7, 9

```
if z==5 and z==7 and z==9:  
    print(value3)
```

#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("Enternumberx"))
y=int(input("Enternumbery"))
if x==0:
    print("Enternumberx")
if y>10 and y<15:
    print("Nothing")
else:
    print("Enternumbery")
```


#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

```
x=0
y=10
z=15
if x<1:
    print("to low")
    if y>=10:
        print("Good job")
    if z>10:
        print("To high")
```



You must use 3 boolean variables

IF — ELIF — ELSE

Exercise 1

Q1 What will be the result if x is equal to 5 ? Answer: `print("red")`
`print("blue")`

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

Q2 What will be the result if X is equal to 5 ? Answer: `print("red")`

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

Exercise 2

Q1 What will be the result if x is equal to 8 ? Answer: **print("one")**

Q2 What will be the result if x is equal to 1 ? Answer: **error**

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

Exercise 3

Q1 What will be the result ? **False**

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

Exercise 4

Q1 What will be the result ? **True**

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

Exercise 5

Q1

What shall be the range of value to display 'red' ? **11,-infinity[**

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

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

Exercise 6

Q1 What will be the result ? **error**

```
a = 8
b = 12
if a == 12:
    print("beautiful")
    if b >= 12:
        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 range] -infinity,10

Q2

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

To display '**blue**' X must be in range 23.

Q3

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

To display '**pink**' X must be in range] +infinity,23.

```
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 ? **Print ("B")**

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

Exercise 9

Q1 What will be the result ? **Print ("True")**

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