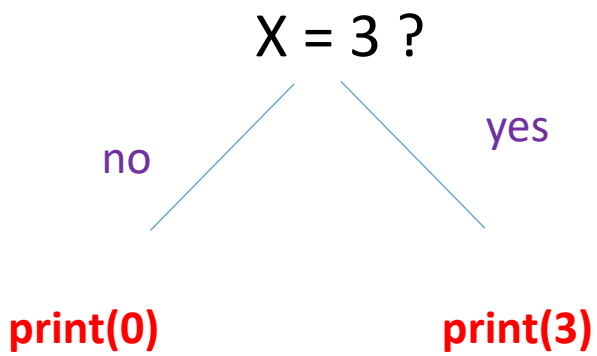
BOOLEAN

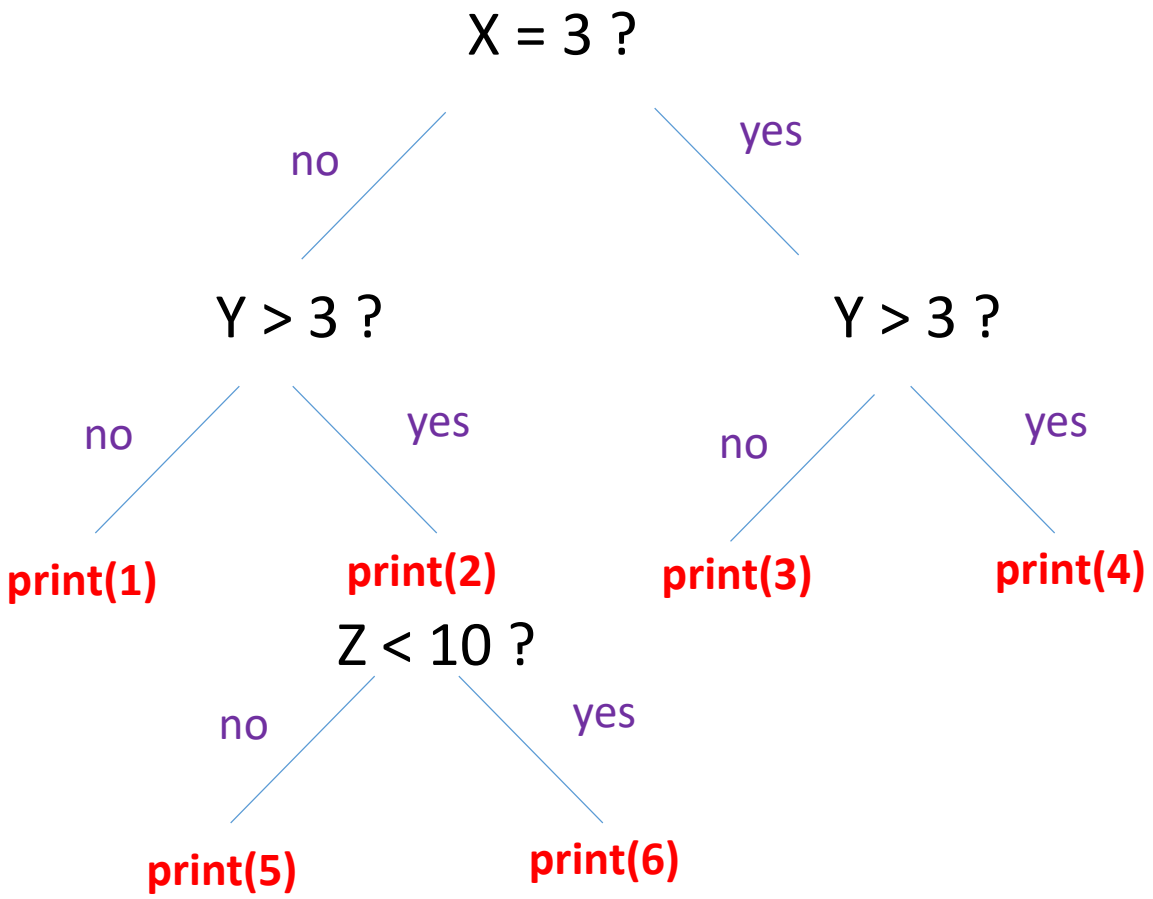
#1



Code this tree in Python

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

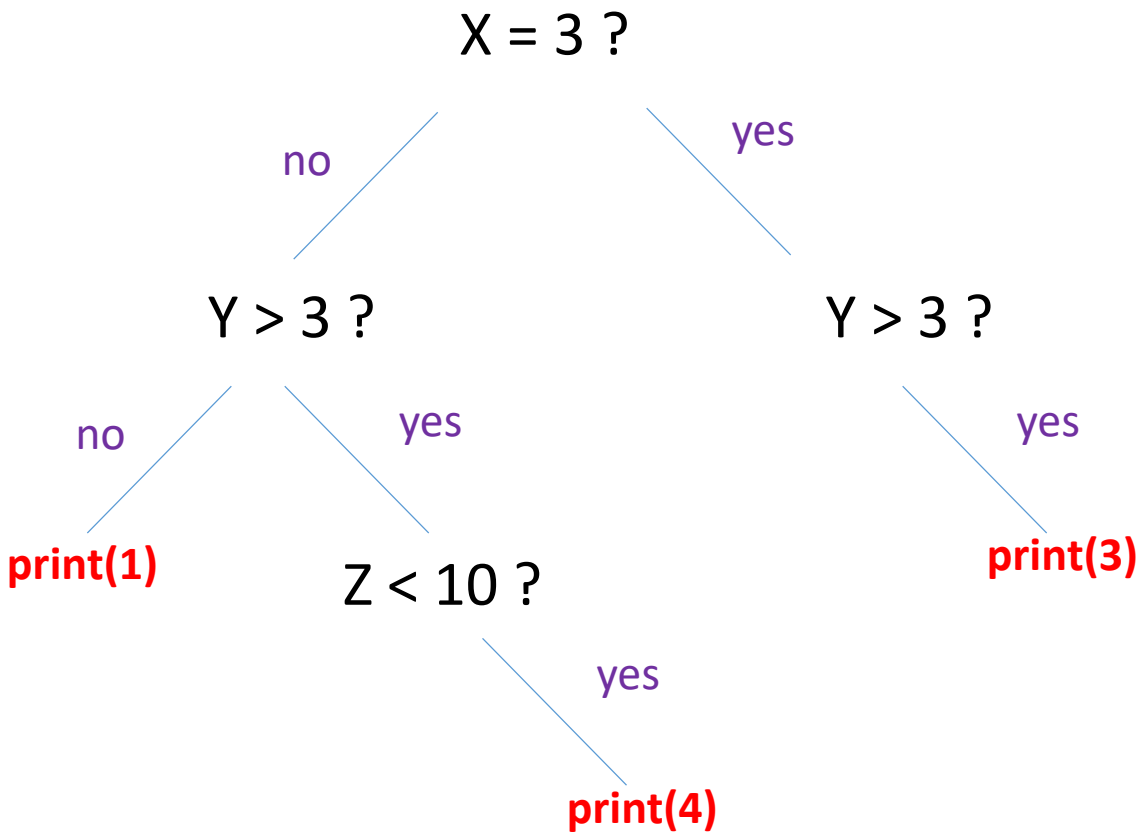
#2



Code this tree in Python

```
x=3
y=2
z=1
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)
```

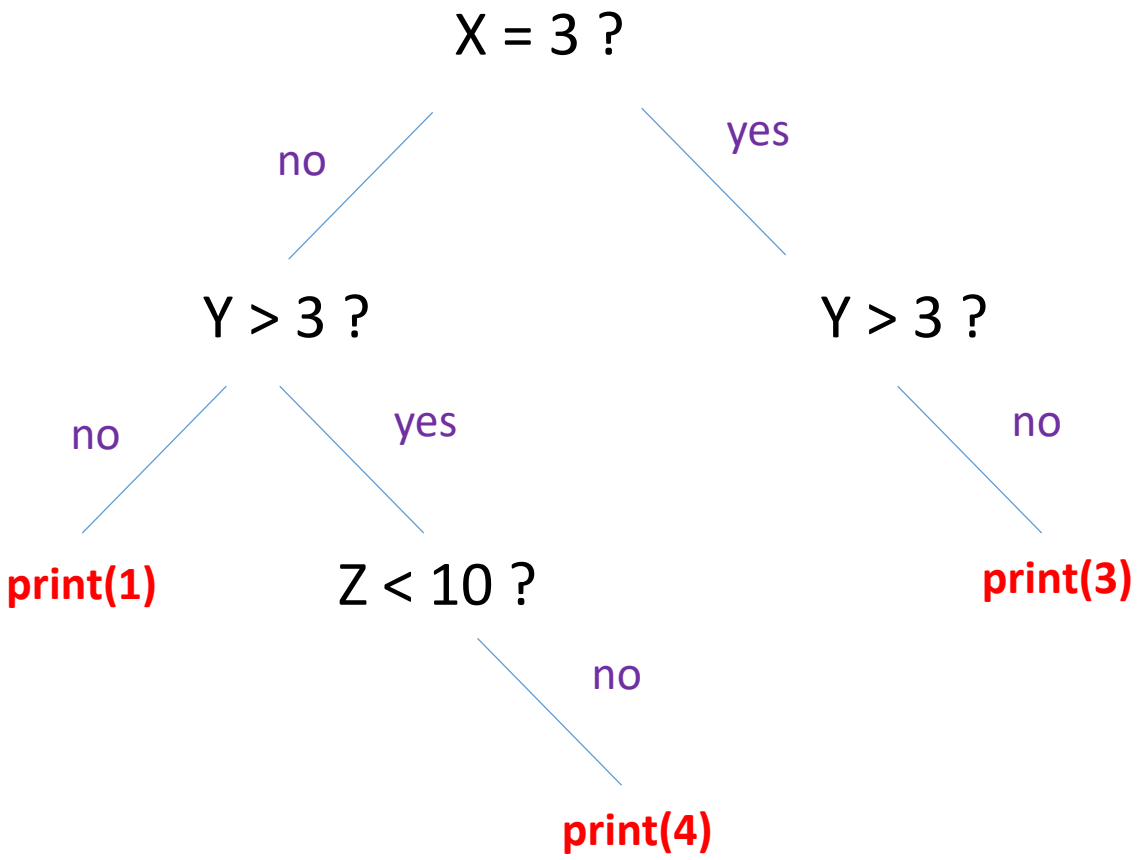
#3



Code this tree in Python

```
x=3
y=5
z=4
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

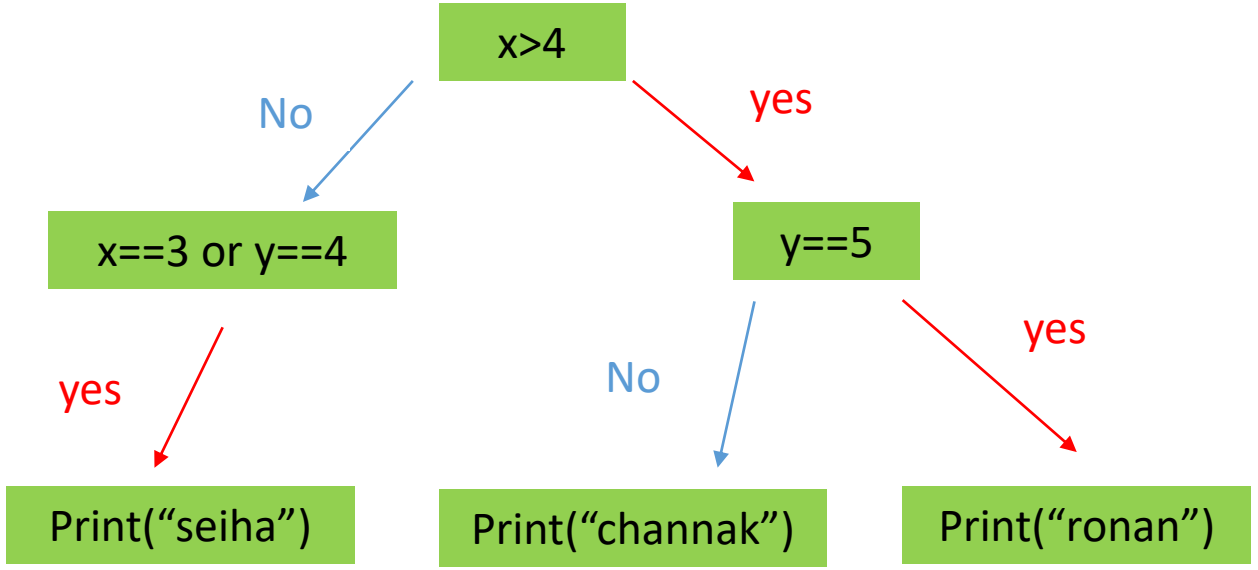
```
x=3
y=2
z=1
if x==3
        if y<3:
            print(3)
Elif y>3 :
       if z>10:
            print(4)
else:
            print(1)
```

#5

Draw the tree of condition of this code

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

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



#6 Write python !!!

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

X>5 and y==9

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

y==1or2

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

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 a number"))

if number<0 or number>10 and number<15:
        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

```
number=int(input("Enter a number"))

if number<1:
    print("To low")
if number==1:
    print("Good job")
if number>10:
    print("To high")
```

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")
```

Answer:
Red
blue

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

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

Answer:
error

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")
```

Answer Q1:
one
two

Answer Q2:
nothing

Exercise 3

Q1 What will be the result ?

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

Answer :
false

Exercise 4

Q1 What will be the result ?

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

Answer :
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")
```

Answer :
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")
```

Answer :
nothing

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**' ?

Answer :
In the range]-infinity,9]

Q2

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

Answer :
In the range]-infinity,23]

Q3

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

Answer :
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")
```

Answer :
B

Exercise 9

Q1 What will be the result ?

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

Answer :
False_