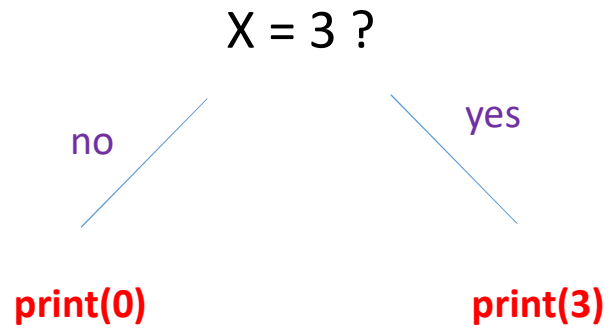


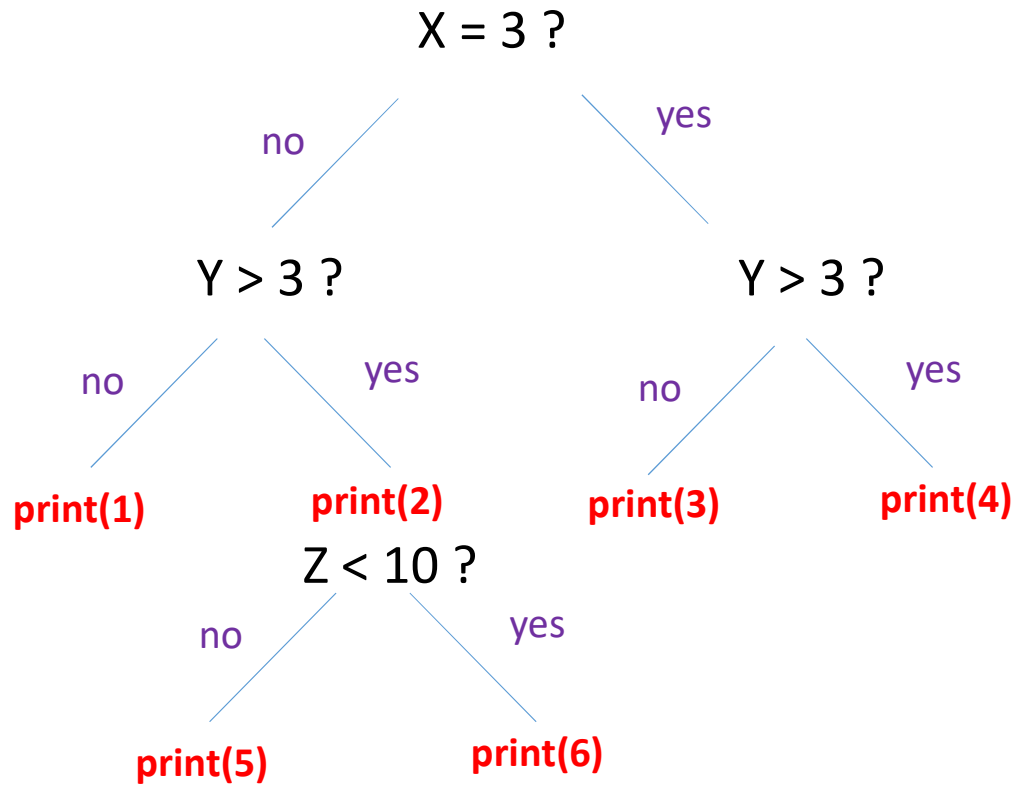
BOOLEAN

#1



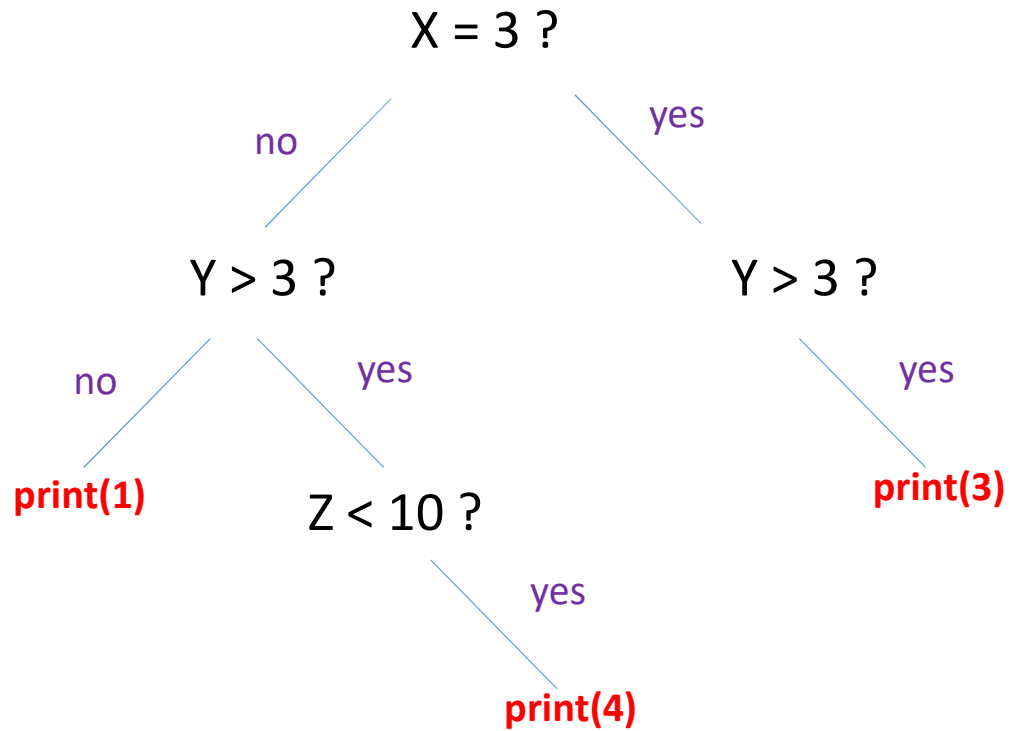
Code this tree in Python

#2



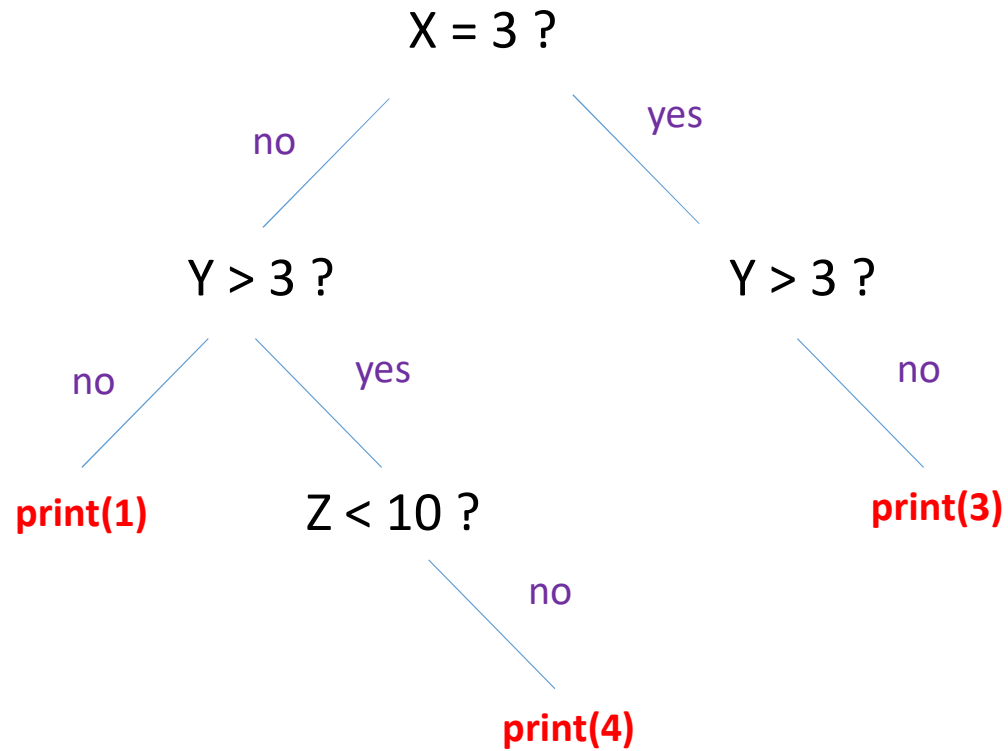
Code this tree in Python

#3



Code this tree in Python

#4



Code this tree in Python

#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
```

#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

#8

Write python !!!

1 - Enter a number

2 - Display:

“to high” if the number displayed is grater than 1

“Good job” if the number is equal to 10

“To low” is the number is lower than 10



You must use 3 boolean variables

IF — ELIF — ELSE

Exercise 1

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

print= red and blue

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

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

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 ?

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

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

print = one if x = 8
print = two if x = 1

Exercise 3

Q1 What will be the result ?

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

print=False

Exercise 4

Q1 What will be the result ?

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

print = True

Exercise 5

Q1

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

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

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

print=red if $x = \{9, 8, \dots, 0\}$

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 $]-\infty, 6]$

Q1

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

Q2

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

Q3

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

print=green if $x = \{9, 8, \dots, 0\}$
print= blue if $x = \{23, 22, 21, \dots, 0\}$
print=pink if $x = \{24, 25, \dots\}$

```
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")
```

print=B

Exercise 9

Q1 What will be the result ?

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