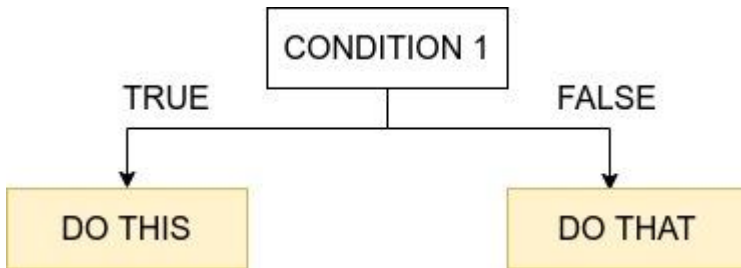


# STATEMENTS

**IF , ELIF , ELSE**

# IF , ELSE

- Only want to execute when a particular condition has been met



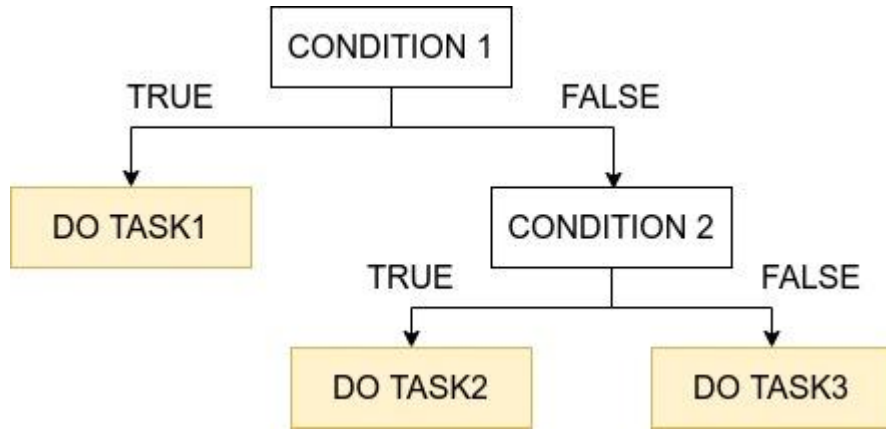
**if CONDITION1 :**

DO THIS

**else :**

DO THAT

# If , ELIF , ELSE



**if** **CONDITION1** :

DO TAKS1

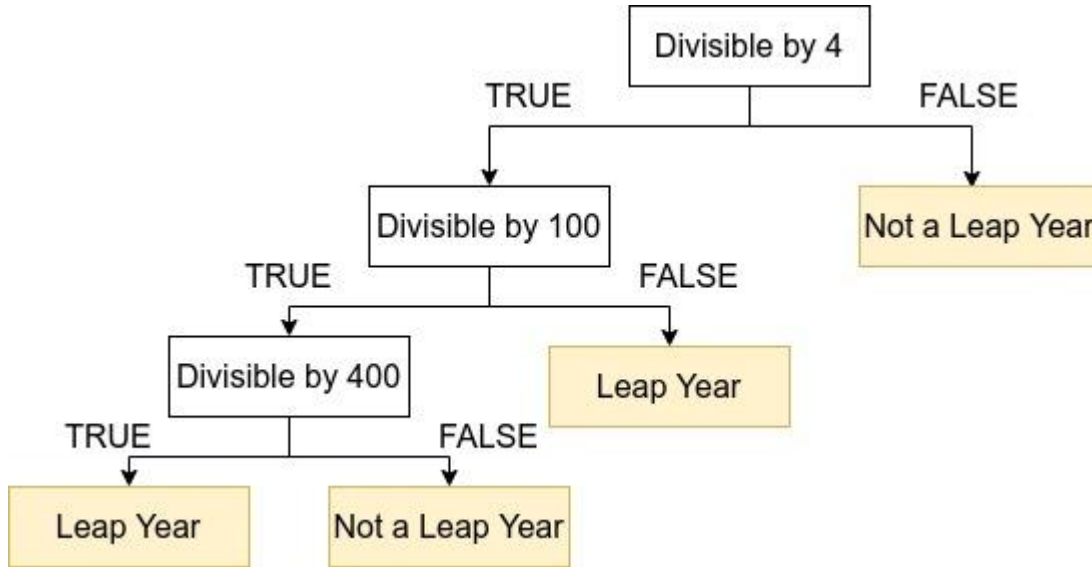
**elif** **CONDITION2** :

DO TASK2

**else** :

DO TASK3

# NESTED IF



**if year % 4 == 0 :**

**if year % 100 == 0 :**

**if year % 400 == 0:**

"leap year"

**else :**

"not a leap year"

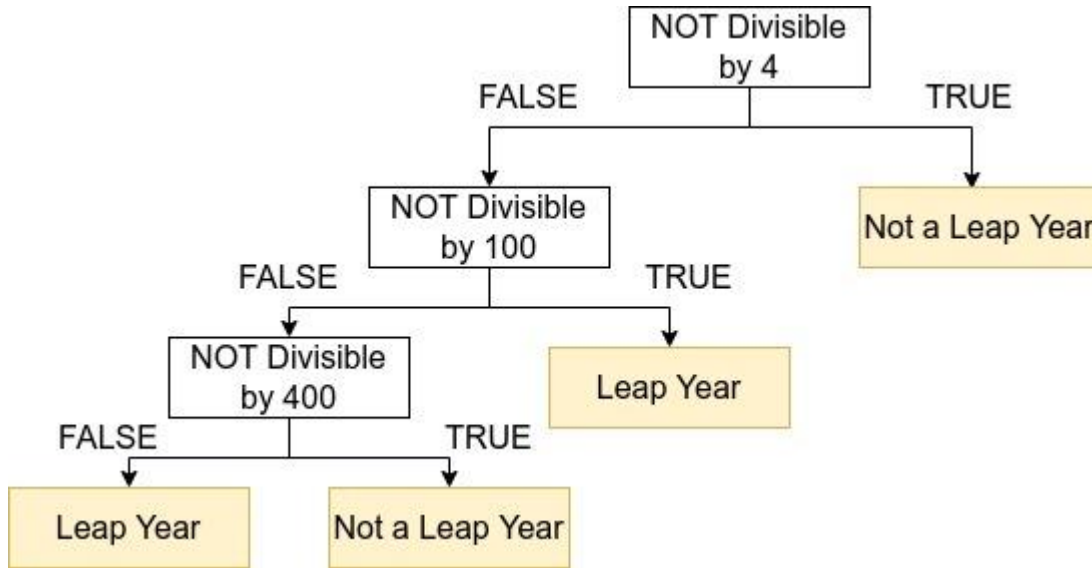
**else :**

"leap year"

**else :**

"not a leap year"

# LEAP YEAR WITH IF-ELIF-ELSE



**if year % 4 != 0 :**

    "Not a Leap Year"

**elif year % 100 != 0 :**

    "Leap Year"

**elif year % 400 != 0 :**

    "Not a Leap Year"

**else :**

    "Leap Year"

# FOR LOOPS

# FOR LOOPS

- Many objects in Python are “iterable” => we can iterate over every element in the object
- Eg – every element in a list or every character in a string, every key or every value in a dictionary

## Syntax

for **item\_name** in **my\_iterable**:

do something to each **item\_name**



# SOME OPERATORS FOR 'FOR' LOOPS

- **range ( start , stop , step )**
  - Iterable object
  - Start – start number
  - Stop – stop number ( not included )
  - Step – how many jump , default = 1

# SOME OPERATORS FOR 'FOR' LOOPS

**for** **index , item** in **enumerate( my\_iterable )** :

do something

**for** **item1 , item2** in **zip( my\_iterable1 , my\_iterable2 )** :

do something

# WHILE LOOPS

# WHILE LOOPS

- While loops will work , “while” condition is True.
- “while” it is rainy, stay inside.
- “while” having electricity, do some coding

## Syntax

**while** **condition:**

do something

# WHILE LOOPS

Can also use with else

## Syntax

**while condition:**

do something

**else :**

do something

**- Be careful for infinite loops**

**BREAK, CONTINUE**

# BREAK, CONTINUE

- Use in loops to add additional functionality
- **'break'** – breaks out of the current closest enclosing loop
- **'continue'** – goes to the top of the closest enclosing loop
- **'pass'** – do nothing at all

