## Python Keywords

- 1. Keywords are Reserved Words in Python
- 2. We can't use keywords as Variables Name, Functions Name, or any other Identifiers
- 3. Keywords are Case Sensitive

```
In [3]: # To Import Keywords
import keyword

In [4]: #To Check Keywords
print(keyword.kwlist)

['False', 'None', 'True', 'and', 'as', 'assert', 'async', 'await', 'break',
'class', 'continue', 'def', 'del', 'elif', 'else', 'except', 'finally', 'fo
    r', 'from', 'global', 'if', 'import', 'in', 'is', 'lambda', 'nonlocal', 'no
    t', 'or', 'pass', 'raise', 'return', 'try', 'while', 'with', 'yield']

In [5]: #To Check Total Keywords
len(keyword.kwlist)
```

# 2. Python Identifier

Out[5]: 35

- 1. Identifier is name that given to the entites like class, functions, and variables, etc
- 2. it helps the identify the one entity to another entity

#### Rules for Declare the Identifier

- · Identifiers are casesensitive
- · Identifiers are can't start with Digit
- Special Characters are not allowed, Except Underscore
- Keywords are the not allowed as Identifier
- No length Limit as declare as Identifier

## 3. Python Comments

 Comments are the lines, that exits in computer programms that can ignored by the Compilers and Interpreters

- By Using Comments, That Program is easily understand and More Readble for humans
- In Python, # is used to write the **Comments**

#### **Compilers:**

- 1. Compilers are the Run the Program and convers it the machine code at a time
- 2. Compilers are take large amount of time to run the code
- 3. Ex: C,C++, Java

#### Interpreter:

- 1. Interpretes run the program line by liune or statement wise at a time.
- 2. Interpreter take the very less time to riun the program
- 3. Ex : Python, Java Script, Ruby

#### Multiline Comments

• If we have required multipule lines commments, we use hash (#), in each line

```
In [16]: # This is Manikanta
# Preparing the Data Science
# This will Take 180 target

In [17]: """ This is Manikanta,
Preparing the Data Science
This will take 180 days target """
Out[17]: ' This is Manikanta \nPreparing the Data Science\nThis will take 180 days t
```

# 4. Python Statements

• Instructions that a python interpreter can execute are called the Statements

### 5. Variables

- A Variable is a location in memory used to store the some value or
- The Rules for writing variables are same as the writing the identifiers
- We Don't even to declare the type of variable. This is handled internally according to the type of value we assign to the value.

### Variable Assignments

we use the = assignment operator to assign the values into variables

```
In [28]: x = 11
         y = 22.22
         z = "Manikanta"
In [29]: # Assign the Values in Same Line
         x,y,z = 10,20.20, "Manikanta"
         print(x,y,z)
        10 20.2 Manikanta
In [30]: #Assign the same value to multiple Variables
         a=b=c=d= "Mani"
         print(a)
         print(b)
         print(c)
         print(d)
        Mani
        Mani
        Mani
        Mani
In [31]: #### Storage Locations
         x = 3
         id(x)
```

```
Out[31]: 140711834888696
In [32]: y=3
         id(y)
Out[32]: 140711834888696
In [33]: y=2
         id(y)
Out[33]: 140711834888664
         6.Data Types

    Every Value in Python has a data type

           • we use the type() function to know witch class a variable or value
           • Interger - int
           • Float -float
           • Complex - complex
           • Boolean - bool
In [36]: a=10
         print(a, "The Type of a is:", type(a))
        10 The Type of a is: <class 'int'>
In [37]: b=10.10
         print(b, "The Type of b is:", type(b))
        10.1 The Type of b is: <class 'float'>
In [38]: c=10
         print(c,"The Type of c is:", type(c))
        10 The Type of c is: <class 'int'>
In [39]: d= True
         print(d, "The Type of d is:", type(d))
```

## **Python Strings**

- String is the Sequence of Unicode Characters
- we can use single quotes or double quotes ' ' or " "
- Strings can be indexed and Start from 0.

True The Type of d is: <class 'bool'>

```
In [42]: m = "This is Manikanta"
print(type(m))
```

### Type Casting or Datatype Convertion

```
In [44]: #Integer to Float
         b = float(100)
         print(b)
         type(b)
        100.0
Out[44]: float
In [45]: #Flaot to Integer
         a = int(100.100)
         print(a)
         type(a)
        100
Out[45]: int
In [46]: #Integer to String
         aa = str(100)
         print(aa)
         type(aa)
        100
Out[46]: str
In [47]: #Integer to String with Combination of Letters
         bb= str(100PPP)
         print(bb)
         type(bb)
          Cell In[47], line 2
            bb= str(100PPP)
        SyntaxError: invalid decimal literal
```

# 7. Python Output & Input

### Output

```
In []: #Use Print() function to get output data
print("Hello World")

In []: a=10
print("The Value of a is:", a)

In []: #Multiple Statements in the Single Line
a =10; b=20
print("The value of a is {} and b is {}".format(a,b))
```

```
In []: #Multiple Statements in Single Line and Specify the Index
    a = 100;b=200
    print("The Value of a is {0} and b is {1}".format(a,b))

In []: #Multiple Statements in Single Line and Specify the Index
    a = 100;b=200
    print("The Value of b is {1} and a is {0}".format(a,b))

In []: #ByUsing the Keyword Argument
    print("Hello My {Name}, Age is {Age}".format(Name="Manikanta",Age=29))

Input

In []: # We have take input from the user, then we take input() function used
    num = input("Enter the Value")
    print(num)

In []:
```

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