Day2_Tokens

Executable Tokens: The components that contribute towards providing the output

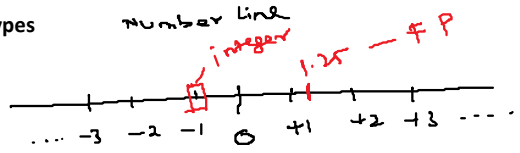
1. **Keyword : A keyword is word that has a predefined meaning and is used for a purpose.**
   When used in the program it performs the activity assigned to it.
   Ex: if, else..

2. **White-Space character : A space, a new line or even a tab space comes under a white space character. In python we have a special space called indentation which is used in block level programming**

3. **Literals or constant: These are the data elements that are provided to the program. These are the fixed values in the program**

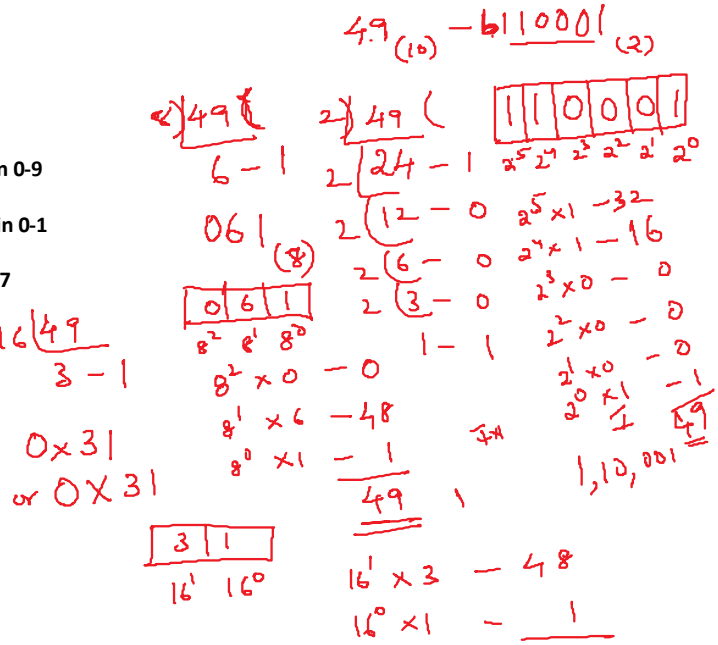
   In python we have 4 kinds of Literals
   - **Numeric Literals**
   - **Character based Literals**
   - **Boolean Literals**
   - **None Literal**

Numeric Literals : These literals represent the numbers. These are further classified in to 3 types
-Integer Literals
-Float-Point Literals
-Complex Literals

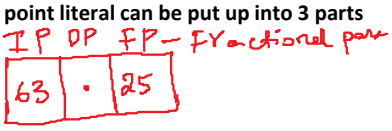


-Integer Literals : 1.The numeric literals that represent the countable quantity
Ex: How many students are there in a class - 10 Members
2. The integer literals form a single part i.e., Integer Part

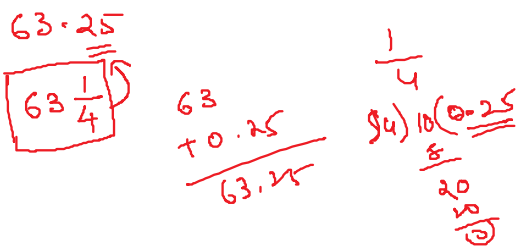
3. Generally Integers are 4 types
- **Decimal Integers --> 0-9 --> The combination of numbers within 0-9**
  $49_{(10)}$
- **Binary Integers --> 0-1 --> The combination of numbers within 0-1**
  $b110001_{(2)}$
- **Octal Integers --> 0-7 --> The combination of numbers within 0-7**
  $061_{(8)}$
- **Hexadecimal Integers--> The combination of numbers within 0-9,10-A,11-B,12-C,13-D,14-E,15-F**
  $0X31_{(16)}$



Float-Point Literals : 1. These literals represent the measurable quantity.
Ex: What is the weight of Person X : 63.25 pounds
2. The floating point literal can be put up into 3 parts



1 + (1/4)
1.25



Complex Literals : 1. The literal that are formed by 2 parts i.e., real part and the imaginary part
Ex: 3-2j
3 --> Real part, 2 --> Imaginary Part

-Boolean Literals : The flag based literals represented by True and False
-None Literal : None means nothing, A None literal represents the null quantity