```
import sys
 In [1]:
         import keyword
         import operator
         from datetime import datetime
         import os
         Keywords
 In [3]: print(keyword.kwlist)
        ['False', 'None', 'True', 'and', 'as', 'assert', 'async', 'await', 'break', 'class',
        'continue', 'def', 'del', 'elif', 'else', 'except', 'finally', 'for', 'from', 'globa
        l', 'if', 'import', 'in', 'is', 'lambda', 'nonlocal', 'not', 'or', 'pass', 'raise',
        'return', 'try', 'while', 'with', 'yield']
 In [4]: len(keyword.kwlist)
 Out[4]: 35
         Identifiers
 In [5]: | 1var = 10 |
          Cell In[5], line 1
            1var = 10
        SyntaxError: invalid decimal literal
 In [6]: val2@ = 35
          Cell In[6], line 1
            va12@ = 35
        SyntaxError: invalid syntax
 In [7]: import = 125
          Cell In[7], line 1
            import = 125
        SyntaxError: invalid syntax
 In [8]: val2 = 10
 In [9]: val_ = 99
         Comments in Python
In [13]: # Single line comment
         val1 = 10
```

```
In [14]: # Multiple line commnt
         val1 = 10
In [15]:
         Multiple
         line
         comment
          1.1.1
         val1 = 10
         0.000
In [16]:
         Multiple
         line
         comment
         val1 = 10
         Statements
In [18]: p = 20
         q = 20
         r = q
         p, type(p), hex(id(p))
Out[18]: (20, int, '0x7ffad0d9b608')
In [19]: q , type(q), hex(id(q))
Out[19]: (20, int, '0x7ffad0d9b608')
In [20]: r , type(r), hex(id(r))
Out[20]: (20, int, '0x7ffad0d9b608')
In [21]: p = 20
         p = p + 10
Out[21]: 30
         Variable Assignment
In [22]: intvar = 10
         floatvar = 2.57
         strvar = "Python Language"
         print(intvar)
         print(floatvar)
         print(strvar)
        10
        2.57
        Python Language
```

## Multiple Assignments

```
In [23]: intvar , floatvar, strvar = 10,2.57,"Python Language"
         print(intvar)
         print(floatvar)
         print(strvar)
        10
        2.57
        Python Language
In [24]: p1 = p2 = p3 = p4 = 44
         print(p1,p2,p3,p4)
        44 44 44 44
         Data Types
         Numeric
In [25]: val1 = 10
         print(val1)
         print(type(val1))
         print(sys.getsizeof(val1))
         print(val1, " is Integer?", isinstance(val1, int))
        10
        <class 'int'>
        28
        10 is Integer? True
In [26]: val2 = 92.78
         print(val2)
         print(type(val2))
         print(sys.getsizeof(val2))
         print(val2, " is float?", isinstance(val2, float))
        92.78
        <class 'float'>
        24
        92.78 is float? True
In [27]: val3 = 25 + 10j
         print(val3)
         print(type(val3))
         print(sys.getsizeof(val3))
         print(val3, " is complex?", isinstance(val3, complex))
        (25+10j)
        <class 'complex'>
        (25+10j) is complex? True
In [31]: sys.getsizeof(int())
Out[31]: 28
```

```
In [29]: sys.getsizeof(float())
Out[29]: 24
In [32]: sys.getsizeof(complex())
Out[32]: 32
         Boolean
In [33]: bool1 = True
In [34]: bool2 = False
In [35]: print(type(bool1))
        <class 'bool'>
In [36]: print(type(bool2))
        <class 'bool'>
In [37]: isinstance(bool1, bool)
Out[37]: True
In [38]: bool(0)
Out[38]: False
In [39]: bool(1)
Out[39]: True
In [40]: bool(None)
Out[40]: False
In [41]: bool (False)
Out[41]: False
         Strings String Creation
In [42]: | str1 = "HELLO PYTHON"
         print(str1)
        HELLO PYTHON
In [43]: mystr = 'Hello World'
         print(mystr)
        Hello World
```

```
In [44]: mystr = "Hello World"
         print(mystr)
       Hello World
In [45]: mystr = '''Hello
                   World '''
         print(mystr)
        Hello
                   World
In [46]: mystr = """Hello
                   World"""
         print(mystr)
        Hello
                  World
In [47]: mystr = ('Happy '
         'Monday '
         'Everyone')
         print(mystr)
       Happy Monday Everyone
In [48]: mystr2 = 'Woohoo'
         mystr2 = mystr2*5
         mystr2
Out[48]: 'Woohoo Woohoo Woohoo Woohoo '
In [49]: len(mystr2)
Out[49]: 35
In [50]: str1
Out[50]: 'HELLO PYTHON'
In [51]: str1[0]
Out[51]: 'H'
In [52]: |str1[len(str1)-1]
Out[52]: 'N'
In [53]: str1[-1]
Out[53]: 'N'
In [54]: str1[6]
Out[54]: 'P'
```

```
In [55]: str1[5]
Out[55]: ''
         String Slicing
In [56]: str1[0:5]
Out[56]: 'HELLO'
In [57]: str1[6:12]
Out[57]: 'PYTHON'
In [58]: str1[-4:]
Out[58]: 'THON'
In [59]: str1[-6:]
Out[59]: 'PYTHON'
In [60]: str1[:4]
Out[60]: 'HELL'
In [61]: str1[:6]
Out[61]: 'HELLO '
         Update & Delete String
In [62]: str1
Out[62]: 'HELLO PYTHON'
In [63]: str1[0:5] = 'HOLAA'
        TypeError
                                                  Traceback (most recent call last)
        Cell In[63], line 1
        ----> 1 str1[0:5] = 'HOLAA'
        TypeError: 'str' object does not support item assignment
In [64]: del str1
         print(srt1)
```

```
NameError
Cell In[64], line 2
    1 del str1
----> 2 print(srt1)

NameError: name 'srt1' is not defined
String concatenation

In [65]: 

S1 = "Hello"
    52 = "Asif"
    53 = S1 + S2
    print(s3)

HelloAsif

In []:
```

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