```
In [1]: import sys
           import keyword
           import operator
           from datetime import datetime
           import os
In [2]: print(keyword.kwlist)
           ['False', 'None', 'True', 'and', 'as', 'assert', 'async', 'await', 'brea
k', 'class', 'continue', 'def', 'del', 'elif', 'else', 'except', 'finall
y', 'for', 'from', 'global', 'if', 'import', 'in', 'is', 'lambda', 'nonloc
al', 'not', 'or', 'pass', 'raise', 'return', 'try', 'while', 'with', 'yiel
           d']
In [3]: len(keyword.kwlist)
Out[3]: 35
In [4]: | 1var = 10 |
              Cell In[4], line 1
                 1var = 10
           SyntaxError: invalid decimal literal
In [5]: val2@ = 35
              Cell In[5], line 1
                 va12@ = 35
           SyntaxError: invalid syntax
In [6]: | import = 125
              Cell In[6], line 1
                 import = 125
           SyntaxError: invalid syntax
In [7]:
           Correct way of defining an identifier
           (Identifiers can be a combination of letters in lowercase (a to z) or upper
           val2 = 10
```

```
In [8]: |val_ = 99
 In [9]: # Single line comment
         val1 = 10
In [10]: # Multiple
         # line
         # comment
         val1 = 10
         1.1.1
In [11]:
         Multiple
         line
         comment
         1.1.1
         val1 = 10
In [12]: p = 20
         q = 20
         r = q
         p , type(p), hex(id(p))
Out[12]: (20, int, '0x7ff9e00a9588')
In [13]: q , type(q), hex(id(q))
Out[13]: (20, int, '0x7ff9e00a9588')
In [14]: p = 20
         p = p + 10
         р
Out[14]: 30
In [15]: intvar = 10
         floatvar = 2.57
         strvar = "Python Language"
         print(intvar)
         print(floatvar)
         print(strvar)
         10
         2.57
         Python Language
In [16]: intvar , floatvar , strvar = 10,2.57,"Python Language" # Using commas to se
         print(intvar)
         print(floatvar)
         print(strvar)
         10
         2.57
         Python Language
```

```
In [17]:
         p1 = p2 = p3 = p4 = 44 # All variables pointing to same value
         print(p1,p2,p3,p4)
         44 44 44 44
In [18]: val1 = 10 # Integer data type
         print(val1)
         print(type(val1)) # type of object
         print(sys.getsizeof(val1)) # size of integer object in bytes
         print(val1, " is Integer?", isinstance(val1, int))
         10
         <class 'int'>
         28
         10 is Integer? True
In [19]: val2 = 92.78 # Float data type
         print(val2)
         print(type(val2)) # type of object
         print(sys.getsizeof(val2)) # size of float object in bytes
         print(val2, " is float?", isinstance(val2, float))
         92.78
         <class 'float'>
         92.78 is float? True
In [20]: val3 = 25 + 10j # Complex data type
         print(val3)
         print(type(val3)) # type of object
         print(sys.getsizeof(val3)) # size of float object in bytes
         print(val3, " is complex?", isinstance(val3, complex))
         (25+10j)
         <class 'complex'>
         (25+10j) is complex? True
In [21]:
         sys.getsizeof(int())
Out[21]: 28
In [22]:
         sys.getsizeof(float())
Out[22]: 24
In [23]: sys.getsizeof(complex())
Out[23]: 32
```

```
In [24]:
         bool1= True
         bool2 = False
In [26]: print(type(bool1))
         print(type(bool2))
         <class 'bool'>
         <class 'bool'>
In [27]: isinstance(bool1,bool)
Out[27]: True
In [28]: bool(0)
Out[28]: False
In [30]: bool(1)
Out[30]: True
In [31]: bool(None)
Out[31]: False
In [32]: bool(False)
Out[32]: False
In [33]: #String
         str1="Hello"
         print(str1)
         Hello
In [34]: |mystr = "HelloWorld"
         print(mystr)
         HelloWorld
In [35]: | mystr = '''Hello
         World '''
         print(mystr)
         Hello
         World
In [37]: | mystr = """Hello
                           World"""
         print(mystr)
         Hello
                           World
```

```
In [38]:
          mystr = ('Happy '
         'Monday '
         'Everyone')
         print(mystr)
         Happy Monday Everyone
In [39]: mystr2 = 'Woohoo '
         mystr2 = mystr2*5
         mystr2
Out[39]: 'Woohoo Woohoo Woohoo Woohoo '
In [40]: len(mystr2)
Out[40]: 35
In [41]: str1
Out[41]: 'Hello'
In [42]: str1[1]
Out[42]: 'e'
In [43]: str1[len(str1)-1]
Out[43]: 'o'
In [44]: str1[-1]
Out[44]: 'o'
In [45]: str1[0:5]
Out[45]: 'Hello'
In [46]: str1[6:12]
Out[46]: ''
In [47]: | str1[-4:]
Out[47]: 'ello'
In [48]: str1[:6]
Out[48]: 'Hello'
```

```
In [49]: str1
Out[49]: 'Hello'
In [50]: |str1[0:5]="hello"
         TypeError
                                                    Traceback (most recent call las
         t)
         Cell In[50], line 1
         ----> 1 str1[0:5]="hello"
         TypeError: 'str' object does not support item assignment
In [51]: del str1
         print(str1)
         NameError
                                                    Traceback (most recent call las
         t)
         Cell In[51], line 2
               1 del str1
         ----> 2 print(str1)
         NameError: name 'str1' is not defined
In [52]: s1="abcd"
         s2="efgh"
         s3=s1+s2
         print(s3)
         abcdefgh
 In [ ]:
```