```
In [1]: import sys
          import keyword
          import operator
          from datetime import datetime
          import os
          keywords
In [2]: print(keyword.kwlist)
        ['False', 'None', 'True', 'and', 'as', 'assert', 'async', 'await', 'break', 'clas s', 'continue', 'def', 'del', 'elif', 'else', 'except', 'finally', 'for', 'from', 'global', 'if', 'import', 'in', 'is', 'lambda', 'nonlocal', 'not', 'or', 'pass',
         'raise', 'return', 'try', 'while', 'with', 'yield']
In [3]: len(keyword.kwlist)
Out[3]: 35
          Idendifier
In [4]: 1var=10
           Cell In[4], line 1
             1var=10
        SyntaxError: invalid decimal literal
In [5]: var12@=15
         NameError
                                                             Traceback (most recent call last)
         Cell In[5], line 1
         ----> 1 var12@=15
        NameError: name 'var12' is not defined
In [6]: import=120
          import
           Cell In[6], line 1
             import=120
        SyntaxError: invalid syntax
In [ ]: val2=10
          val
In [7]: val=90
          val
Out[7]: 90
          comments in python
```

```
In [8]:
         val1=10
         val1
 Out[8]: 10
 In [9]:
         '''multiple
         line
         comment'''
         val=10
         statements
In [10]: p=20
         q=20
         r=q
         p,type(p),hex(id(p))
Out[10]: (20, int, '0x7ffa72efb608')
In [11]: q,type(q),hex(id(q))
Out[11]: (20, int, '0x7ffa72efb608')
In [12]: r,type(r),hex(id(r))
Out[12]: (20, int, '0x7ffa72efb608')
In [13]: p=20
         p=p+20
Out[13]: 40
         variable assignment
In [14]: intvar=13
         floatvar=20.5
         strvar='swapna'
         print(intvar)
         print(floatvar)
         print(strvar)
        13
        20.5
        swapna
In [15]: intvar,floatvar,strvar=10,20.4,'swapna'
         print(intvar)
         print(floatvar)
         print(strvar)
        10
        20.4
        swapna
In [16]: p1=p2=p3=p4=40
         print(p1,p2,p3,p4)
```

40 40 40 40

```
data types
In [17]: val1 = 10
         print (val1)
         print(type(val1))
         print(sys.getsizeof(val1))
        10
        <class 'int'>
        28
In [18]: val2=10.5
         print(val2)
         print(type(val2))
         print(sys.getsizeof(val2))
        10.5
        <class 'float'>
        24
In [19]: bool1=True
         bool1
Out[19]: True
In [20]: bool2=False
         bool2
Out[20]: False
In [21]: print (type(bool1))
        <class 'bool'>
In [22]: print (type(bool2))
        <class 'bool'>
In [23]: isinstance(bool1, bool)
Out[23]: True
In [24]: bool(0)
Out[24]: False
In [25]: bool(1)
Out[25]: True
In [26]: bool(None)
Out[26]: False
         StringCreation
```

```
In [27]: str1=('hello python')
         print(str1)
        hello python
In [28]: mystr=('hello world')
         print(mystr)
        hello world
In [29]: len(str1)
Out[29]: 12
In [30]: len(mystr)
Out[30]: 11
In [31]: str1[0]
Out[31]: 'h'
In [32]: mystr[1]
Out[32]: 'e'
In [33]: len[str1(str1(-1))]
                                                  Traceback (most recent call last)
        TypeError
        Cell In[33], line 1
        ----> 1 len[str1(str1(-1))]
       TypeError: 'str' object is not callable
In [34]: str1[len(str1)-1]
Out[34]: 'n'
In [35]: str1[-3]
Out[35]: 'h'
In [36]: str1[6]
Out[36]: 'p'
In [37]: mystr[4]
Out[37]: 'o'
         slicing
In [38]: str1
```

```
Out[38]: 'hello python'
In [39]: str1[:]
Out[39]: 'hello python'
In [40]: str1[:2]
Out[40]: 'he'
In [41]: str1[::2]
Out[41]: 'hlopto'
In [42]: str1[:3]
Out[42]: 'hel'
In [43]: str1[1:10:2]
Out[43]: 'el yh'
         delete or update string
In [44]: str1
Out[44]: 'hello python'
In [45]: str1[0:5]
Out[45]: 'hello'
In [46]: del(str1)
         print(str1)
        NameError
                                                  Traceback (most recent call last)
        Cell In[46], line 2
              1 del(str1)
        ----> 2 print(str1)
        NameError: name 'str1' is not defined
         concatnation=adding
In [47]: s1='welcome'
         s2='to'
         s3='new world'
         print(s1 +s2 +s3)
        welcometonew world
In [48]: print(s1)
        welcome
 In [ ]:
```

In]:	
In	[]:	
In	[]:	