```
In [ ]: recap
         int float bool None complex
         operator
         conditional statements
         Looping statements
In [ ]: int, float, bytes, none---> scalar
         collection
                      list, str, tuple - ordered - index based access
         ----seq
         |-----mapping dict, set unordered -key based access
In [14]: | s="python"
         # s | p | y | t | h | o | n
              0 1 2 3 4 5
                            -2 -1
         print(s[3])
         print(s[-3])
         h
         h
In [15]: x=s[3]
         print(x)
         h
In [16]: |s[3]='x' # immutable- umodifyable
                                                   Traceback (most recent call last)
         TypeError
         Cell In[16], line 1
         ----> 1 s[3]='x'
         TypeError: 'str' object does not support item assignment
In [17]: for i in s:
             print(i)
         р
         У
         t
         h
         0
         n
```

```
In [18]: #slicing operation- sub string
         # stringname[n:m] --> str starts fro index n to index() m-1)
         print(s[2:4])
         th
In [20]: msg="The python programming "
         print(msg[5:])
         ython programming
In [21]: |print(msg[:10])
         The python
In [23]: |print(s,s[0],s[1],s[2])
         print(type(s),type(s[0]),type(s[1]))
         python p y t
         <class 'str'> <class 'str'> <class 'str'>
In [24]: help(str)
         Help on class str in module builtins:
         class str(object)
             str(object='') -> str
             str(bytes or buffer[, encoding[, errors]]) -> str
             Create a new string object from the given object. If encoding or
             errors is specified, then the object must expose a data buffer
             that will be decoded using the given encoding and error handler.
             Otherwise, returns the result of object.__str__() (if defined)
             or repr(object).
             encoding defaults to sys.getdefaultencoding().
             errors defaults to 'strict'.
             Methods defined here:
              _add__(self, value, /)
                 Return self+value.
               contains /solf koy /\
In [25]: |s.upper()
Out[25]: 'PYTHON'
In [26]: | s.islower()
Out[26]: True
```

```
In [27]: | s="abcd"
         print(s[10])
         IndexError
                                                    Traceback (most recent call last)
         Cell In[27], line 2
                1 s="abcd"
         ----> 2 print(s[10])
         IndexError: string index out of range
In [28]: s1="12"
         s2="ab"
         i=int(s1)+100
         j=int(s2)
         print(i,j)
         ValueError
                                                    Traceback (most recent call last)
         Cell In[28], line 5
                2 s2="ab"
               4 i=int(s1)+100
         ----> 5 j=int(s2)
                6 print(i,j)
         ValueError: invalid literal for int() with base 10: 'ab'
In [29]: print(s3)
         NameError
                                                    Traceback (most recent call last)
         Cell In[29], line 1
         ----> 1 print(s3)
         NameError: name 's3' is not defined
```

```
In [30]: class ABC:
             pass
         obj=ABC()
         print(obj.s1)
                                                    Traceback (most recent call last)
         AttributeError
         Cell In[30], line 6
               2
                     pass
               4 obj=ABC()
         ---> 6 print(obj.s1)
         AttributeError: 'ABC' object has no attribute 's1'
In [32]: #List - collection of different datatype- mutable- index based- ordered -
         emp_name="Harish"
         empId=1212
         e loginStatus=True
         emp=[emp_name,empId,e_loginStatus]
In [33]: print(emp)
         ['Harish', 1212, True]
In [34]: print(type(emp))
         <class 'list'>
In [35]: |print(emp[0],emp[1],emp[2])
         Harish 1212 True
In [36]: print(type(emp), type(emp[0]),type(emp[1]))
         <class 'list'> <class 'str'> <class 'int'>
In [37]: | for i in emp:
             print(i)
         Harish
         1212
         True
In [38]: #membership operator---> in not in
         'i' in 'python'
Out[38]: False
```

```
In [39]: 'i' not in 'python'
Out[39]: True
In [52]: L=[]
In [41]: |print(L,type(L))
         [] <class 'list'>
In [53]: # Listsname.append(item) vs L.insert()
         L.append("Data1")
         L.append("Data2")
         L.append("Data3")
         print(L)
         ['Data1', 'Data2', 'Data3']
In [47]: L.insert(2,"Data5")
         print(L)
         ['Data1', 'Data1', 'Data5', 'Data2', 'Data3']
In [50]: print(L[0])
         print(L[-1])
         Data1
         Data3
In [55]: print(L[:2])
                       #slicing
         print(L[1:])
         print(L[:])
         ['Data1', 'Data2']
         ['Data2', 'Data3']
         ['Data1', 'Data2', 'Data3']
 In [ ]: # Len() vs
                        "abc".format()
         #function vs method
         #help(), len(), type(),int(), float(),str(), complex()
In [56]: | s="Python is an Interpreted language"
         len(s)
Out[56]: 33
```

```
In [58]: print(L)
         len(L)
         ['Data1', 'Data2', 'Data3']
Out[58]: 3
 In [ ]: # append(), insert()---> add item to list
         # pop, remove
In [42]: help(L)
         Help on list object:
         class list(object)
             list(iterable=(), /)
             Built-in mutable sequence.
             If no argument is given, the constructor creates a new empty list.
             The argument must be an iterable if specified.
             Methods defined here:
               _add__(self, value, /)
                 Return self+value.
              _contains__(self, key, /)
                 Return key in self.
               _delitem__(self, key, /)
In [59]: print(L)
         ['Data1', 'Data2', 'Data3']
In [60]: L.pop() # removes last item
Out[60]: 'Data3'
In [61]: print(L)
         ['Data1', 'Data2']
In [62]: L.pop(0)
Out[62]: 'Data1'
In [63]: print(L)
         ['Data2']
```

```
In [67]: L=["data1","data2","data3","data4"]
         L.remove("data3")
In [68]: print(L)
         ['data1', 'data2', 'data4']
In [71]: re=L.remove("data2")
         print(type(re))
         <class 'NoneType'>
In [ ]: L.pop(index)---> item that was removed vs L.remove(Value)----> None
In [72]: del(s)
In [73]:
         print(s)
         NameError
                                                   Traceback (most recent call last)
         Cell In[73], line 1
         ----> 1 print(s)
         NameError: name 's' is not defined
In [74]: del(L[0])
In [75]: L
Out[75]: ['data4']
In [76]: | s="arun, sales, bengaluru, 190000\n"
         print(s)
         arun, sales, bengaluru, 190000
In [77]: with open("E:\\emp.csv",'r') as robj:
                             # entire file content as single str
            # robj.read()
              L=robj.readlines() # each line as each item of list
```

```
In [78]: L
Out[78]: ['eid,ename,edept,eplace,ecost\n',
           '101, raj, sales, pune, 1000 \n',
           '102,leo,prod,bglore,2000\n',
           '103,paul,HR,chennai,3000\n',
           '104,anu,hr,hyderabad,4000\n',
           '456, kumar, sales, bglore, 3000\n',
           '105,zion,Hr,mumbai,5000\n',
           '106,bibu,sales,bglore,1450\n',
           '107, theeb, sales, noida, 4590 \n',
           '108, bibu, sales, bglore, 5000']
In [79]: with open("E:\\emp.csv", 'r') as robj:
                                    # entire file content as single str
             s=robj.read()
             #L=robj.readlines() # each line as each item of list
In [80]:
Out[80]: 'eid,ename,edept,eplace,ecost\n101,raj,sales,pune,1000\n102,leo,prod,bglore,2
         000\n103,paul,HR,chennai,3000\n104,anu,hr,hyderabad,4000\n456,kumar,sales,bgl
         ore,3000\n105,zion,Hr,mumbai,5000\n106,bibu,sales,bglore,1450\n107,theeb,sale
         s,noida,4590\n108,bibu,sales,bglore,5000'
 In [ ]:
         with open(filename, mode)
                             |----r , w
         open(filename)---> opens file for read
In [98]: |e1= '101,raj,sales,pune,1000\n'
         e1.rstrip()
         print(type(e1))
         <class 'str'>
In [94]: |help(e1.strip)
                           #lstrip()
                                       rstrip()
         Help on built-in function strip:
         strip(chars=None, /) method of builtins.str instance
             Return a copy of the string with leading and trailing whitespace removed.
             If chars is given and not None, remove characters in chars instead.
In [99]: e1
Out[99]: '101, raj, sales, pune, 1000\n'
```

```
In [116]:
           Task1
           ====
           1. create an empty List L
           2. Add server1, server2, server4, server5 as items to list
                    2A. display the list
           3. Insert server3 to the list L at index 2
                    3A. display the list
           4. delete server5 from the list --> try with pop()
           5. delete server1 from list ----> try with remove()
           6. delete server2 from list --> try with del()
           1.1.1
           L=[]
           L.append("server1")
           L.append("server2")
           L.append("server4")
           L.append("server5")
           print(L)
           L.insert(2,"server3")
           print(L)
           L.pop(-1)
           print(L)
           L.remove("server1")
           print(L)
           del(L[0])
           print(L)
           ['server1', 'server2', 'server4', 'server5']
           ['server1', 'server2', 'server3', 'server4', 'server5']
['server1', 'server2', 'server3', 'server4']
           ['server2', 'server3', 'server4']
['server3', 'server4']
```

```
In [119]:
          Task2
          =====
          Given string s1="Yamal,1322,True,3.4\n"
          1. strip the given string
          split the string and store it in variables like app_name, port_no, running_s
          3. display the app details
          s1="Yamal,1322,True,3.4\n"
          s2= s1.strip()
          L=s2.split(",")
          app name=L[0]
          port_no=L[1]
          running status=L[2]
          version=L[3]
          print(f'''Application Name = {app_name}
          Port = {port_no}
          App Running Status = {running status}
          Version = {version}''')
          Application Name = Yamal
          Port = 1322
          App Running Status = True
          Version = 3.4
In [123]: | s1="Yamal,1322,True,3.4\n"
          s2= s1.strip()
          L=s2.split(",")
          app_name,port_no,running_status=L # multiple assignment - value error
          print(f'''Application Name = {app_name}
          Port = {port_no}
          App Running Status = {running_status}
          Version = {version}''')
          ValueError
                                                     Traceback (most recent call last)
          Cell In[123], line 5
                2 s2= s1.strip()
                3 L=s2.split(",")
          ----> 5 app_name,port_no,running_status=L # multiple assignment
                7 print(f'''Application Name = {app_name}
                8 Port = {port_no}
                9 App Running Status = {running_status}
               10 Version = {version}''')
          ValueError: too many values to unpack (expected 3)
```

```
In [125]: | s1="Yamal,1322,True,3.4\n"
          s2= s1.strip()
          L=s2.split(",")
          app_name,port_no,running_status,version=L # multiple assignment
          print(f'''Application Name = {app_name}
          Port = {port no}
          App Running Status = {running_status}
          Version = {version}''')
          Application Name = Yamal
          Port = 1322
          App Running Status = True
          Version = 3.4
In [127]: | s1="Yamal,1322,True,3.4\n"
          app_name,port_no,running_status,version= s1.strip().split(",")
          print(f'''Application Name = {app name}
          Port = {port_no}
          App Running Status = {running_status}
          Version = {version}''')
          Application Name = Yamal
          Port = 1322
          App Running Status = True
          Version = 3.4
```

```
In [128]:
          Task 3
          ____
          step1: create an empty list filenames
          step2: use while loop and limit it to 5 times
          step3: read an input filename from user and append it to the List filenames
          step4: using for loop display the content of list filenames.
          filenames=[]
          i=1
          while(i<=5):</pre>
              file=input("Enter a Filename")
              filenames.append(file)
              i=i+1
                       #
                              i+=1
          for i in filenames:
              print(i)
          Enter a Filenamef1.java
          Enter a Filenamef2.sh
          Enter a Filenamef3.py
          Enter a Filenamef4.pvo
          Enter a Filenamef5.c
          f1.java
          f2.sh
          f3.py
          f4.pyo
          f5.c
  In [ ]: Tuple--> collection of different datatype values - ordered - index based- immut
In [129]: L
Out[129]: ['Yamal', '1322', 'True', '3.4']
In [130]: L[0]= "Prometheus"
                                 # mutable
          print(L)
          ['Prometheus', '1322', 'True', '3.4']
In [131]: var=1,2
          print(type(var))
          <class 'tuple'>
In [132]: | T=() # empty tuple
```

In [135]: help(T)

```
Help on tuple object:
class tuple(object)
   tuple(iterable=(), /)
    Built-in immutable sequence.
    If no argument is given, the constructor returns an empty tuple.
    If iterable is specified the tuple is initialized from iterable's items.
    If the argument is a tuple, the return value is the same object.
    Built-in subclasses:
        asyncgen hooks
        UnraisableHookArgs
    Methods defined here:
    __add__(self, value, /)
        Return self+value.
    __contains__(self, key, /)
        Return key in self.
    __eq__(self, value, /)
        Return self==value.
    __ge__(self, value, /)
        Return self>=value.
    __getattribute__(self, name, /)
        Return getattr(self, name).
    __getitem__(self, key, /)
        Return self[key].
    __getnewargs__(self, /)
    __gt__(self, value, /)
        Return self>value.
     _hash__(self, /)
        Return hash(self).
     __iter__(self, /)
        Implement iter(self).
     _le__(self, value, /)
        Return self<=value.
    __len__(self, /)
        Return len(self).
     lt (self, value, /)
        Return self<value.
```

\_\_mul\_\_(self, value, /)

Return self\*value.

```
__ne__(self, value, /)
                  Return self!=value.
              __repr__(self, /)
                  Return repr(self).
               __rmul__(self, value, /)
                  Return value*self.
              count(self, value, /)
                  Return number of occurrences of value.
              index(self, value, start=0, stop=9223372036854775807, /)
                  Return first index of value.
                  Raises ValueError if the value is not present.
              Class methods defined here:
              class getitem (...) from builtins.type
                  See PEP 585
              Static methods defined here:
              __new__(*args, **kwargs) from builtins.type
                  Create and return a new object. See help(type) for accurate signatur
          e.
In [136]: L1=list(T)
          print(L1, type(L1))
          [] <class 'list'>
In [137]: T=(10,20,30)
In [138]: L=list(T)
          L.append(40)
          print(L,type(L))
          T=tuple(L)
          print(T,type(T))
          [10, 20, 30, 40] <class 'list'>
          (10, 20, 30, 40) <class 'tuple'>
In [140]: T=(10,20,10,30,40)
          T.count(10)
Out[140]: 2
```

```
In [ ]: # List- mutable- ordered- index based - [] - allows duplicates
          #tuple - immutable- ordered-index based- () - allows duplications
 In [ ]: #dict- key:value pair - unorderd - key based access- allows duplicates only in
          # keys are unique
In [141]:
          d={(1,2):"data"} # valid
In [142]: | d={1:"data"} # valid
In [143]: | d={"key1":"value1"} # recommended
In [144]: #dictname[keyname] --> value
                                                         Vs
                                                                 dictname.setdefault(newke
          d["key1"]
Out[144]: 'value1'
In [145]: d={}
In [146]: |d["key2"]="value"
In [147]: d
Out[147]: {'key2': 'value'}
In [148]: | d.setdefault("key3","value3")
Out[148]: 'value3'
In [149]: d
Out[149]: {'key2': 'value', 'key3': 'value3'}
```

```
In [150]: #help(d)
                     or help(dict)
          help(d)
          Help on dict object:
          class dict(object)
              dict() -> new empty dictionary
              dict(mapping) -> new dictionary initialized from a mapping object's
                  (key, value) pairs
              dict(iterable) -> new dictionary initialized as if via:
                  d = \{\}
                  for k, v in iterable:
                      d[k] = v
              dict(**kwargs) -> new dictionary initialized with the name=value pairs
                  in the keyword argument list. For example: dict(one=1, two=2)
              Built-in subclasses:
                  StgDict
              Methods defined here:
               _contains__(self, key, /)
In [151]: d.get("key3")
                                        dictname["key"]---> value
Out[151]: 'value3'
In [152]: |d.items()
Out[152]: dict_items([('key2', 'value'), ('key3', 'value3')])
In [154]: d.keys()
Out[154]: dict_keys(['key2', 'key3'])
In [155]: |d.values()
Out[155]: dict_values(['value', 'value3'])
 In [ ]: |#dictname["oldkey"]= "newvalue" vs dictname.setdefault(oldkey,newvalue)
In [157]: del(d["key2"])
In [158]: d
Out[158]: {'key3': 'value3'}
```

```
In [ ]: |#dict- key:value pair - unorderd - key based access- allows duplicates only in
          # keys are unique
In [162]: d={}
          hostname=input("Enter the hostname")
          ipaddr=input("Enter the IP address")
          d[hostname]=ipaddr # dictname[key]=value
          print(d,len(d))
          Enter the hostnamehost01
          Enter the IP address192.168.1.1
          {'host01': '192.168.1.1'} 1
In [163]:
          hostname=input("Enter the hostname")
          ipaddr=input("Enter the IP address")
          d.setdefault(hostname,ipaddr) # dictname.setdefault(newkey,newvalue)
          print(d,len(d))
          Enter the hostnamehost02
          Enter the IP address192.168.1.2
          {'host01': '192.168.1.1', 'host02': '192.168.1.2'} 2
  In [1]:
          2. Q1. Write a python program
          Given tuple Products=("P1","P2","P3","P4","P5")
          display the list of products except P2 and P3
          Note :use for loop statement
          Products=("P1","P2","P3","P4","P5")
          for i in Products:
              if i=="P2" or i=="P3": # if i in ("P1", "P4", "P5")
                  continue
              print(i)
          Ρ1
          Ρ4
          P5
```

```
In [3]:
        3.Write a python program
        Step 1 : create an empty dict
        Step 2 : use looping statements - 5times
                          i) Read a hostname from <STDIN>
                          ii) Read a IP-Address from <STDIN>
                          iii) Add a input details to existing dict
                          iv) with hostname as a key and IP address as it's value
        Step 4 : display Key/ value details to monitor
        d={}
        i=1
        while(i<=5):</pre>
            host=input("Enter a hostname")
            ip=input("Enter the Ip address")
            d.setdefault(host,ip)
                                              # d[host]=ip
            i=i+1
        print(d)
```

```
Enter a hostnamehost01
Enter the Ip address192.168.1.2
Enter a hostnamehost02
Enter the Ip address198.162.1.3
Enter a hostnamehost03
Enter the Ip address192.168.1.9
Enter a hostnamehost04
Enter the Ip address168.192.1.0
Enter a hostnamehost05
Enter the Ip address192.168.1.1
{'host01': '192.168.1.2', 'host02': '198.162.1.3', 'host03': '192.168.1.9', 'host04': '168.192.1.0', 'host05': '192.168.1.1'}
```

```
1.1.1
In [4]:
        4.
        Step 1: Modify the above code
        Step 2: Use membership operator to test whether the input hostname already exis
        Step 3: if it's exists already, display pop up message "Sorry your input hostna
        1.1.1
        d={}
        i=1
        while(i<=5):</pre>
            host=input("Enter a hostname")
            if host in d.keys():
                 print("Sorry your input hostname exist, Try again")
                 continue
            ip=input("Enter the Ip address")
                                                                #d.setdefault(old hostname
            d.setdefault(host,ip)
                                               # d[host]=ip
            i=i+1
        print(d)
        Enter a hostnamehost01
        Enter the Ip address192.189.1.2
        Enter a hostnamehost01
        Sorry your input hostname exist, Try again
        Enter a hostnamehost02
        Enter the Ip address1.2.3.4
        Enter a hostnamehost03
        Enter the Ip address1.92.169.1.4
        Enter a hostnamehost04
        Enter the Ip address1.2.3.4
        Enter a hostnamehost05
        Enter the Ip address2.3.4.5
        {'host01': '192.189.1.2', 'host02': '1.2.3.4', 'host03': '1.92.169.1.4', 'hos
        t04': '1.2.3.4', 'host05': '2.3.4.5'}
In [5]: d
Out[5]: {'host01': '192.189.1.2',
          'host02': '1.2.3.4',
          'host03': '1.92.169.1.4',
          'host04': '1.2.3.4',
```

'host05': '2.3.4.5'}

```
In [6]: L=[1,2,3,4]
         for i in L:
             print(i)
         1
         2
         3
         4
 In [7]: d={"k1":"v1","k2":"v2","k3":"v3"}
 In [9]: for i in d:
             print(i)
         k1
         k2
         k3
In [10]: for i in d:
             print(d[i])
         ν1
         v2
         v3
In [11]: for i in d:
             print(i,d[i])
                             # key value
         k1 v1
         k2 v2
         k3 v3
In [14]: for i in d.items():
             print(i)
         ('k1', 'v1')
         ('k2', 'v2')
         ('k3', 'v3')
In [15]: for i in d.keys():
             print(i,d[i])
         k1 v1
         k2 v2
         k3 v3
In [16]: print(type(d.keys()))
         <class 'dict_keys'>
```

```
In [17]: for i in d.values():
             print(i)
         ν1
         v2
         v3
In [ ]: | Set
                      keybased - avoids duplicates -- key only structure - {key}
In [18]: | s=set() # oop concept- constructor
         print(type(s))
         <class 'set'>
In [19]: help(set)
         Help on class set in module builtins:
         class set(object)
             set() -> new empty set object
             set(iterable) -> new set object
             Build an unordered collection of unique elements.
             Methods defined here:
             __and__(self, value, /)
                 Return self&value.
             __contains__(...)
                 x.__contains__(y) <==> y in x.
             __eq__(self, value, /)
                 Return self==value.
                    / 10 1
In [20]: s.add(10)
In [21]: |s.add(20)
In [22]: print(s)
         {10, 20}
In [23]: |s.update([10,20,30])
         print(s)
         {10, 20, 30}
```

```
In [24]: s.add(30)
         print(s)
         {10, 20, 30}
In [26]: s.add(40)
         print(s)
         {40, 10, 20, 30}
In [37]: L=[10,20,30,40,50,1,2,3,4,5,12,3,4,5,1,2,3]
         s=set(L)
         print(s)
         {1, 2, 3, 4, 5, 40, 10, 12, 50, 20, 30}
In [38]:
         print(s)
         s.remove(1)
         {1, 2, 3, 4, 5, 40, 10, 12, 50, 20, 30}
In [39]: print(s)
         {2, 3, 4, 5, 40, 10, 12, 50, 20, 30}
In [40]: |s.discard(5)
         print(s)
         {2, 3, 4, 40, 10, 12, 50, 20, 30}
In [41]: |s.remove(100)
         print()
         KeyError
                                                     Traceback (most recent call last)
         Cell In[41], line 1
         ---> 1 s.remove(100)
                2 print()
         KeyError: 100
In [42]: | s.discard(100)
```

```
In [43]: A={"p1.c","p2.java","p3.sh","Demo"}
         B={"p1.java","p2.java","p1.c","p3.sh","D1","Demo"}
         print("Common files in A abd B ", A&B)
         print("Common files in A abd B ", A.intersection(B))
         print("Combining files in A and B ", A.union(B))
         print("Combining files in A and B ", A|B)
         Common files in A abd B {'p1.c', 'p3.sh', 'Demo', 'p2.java'}
Common files in A abd B {'p1.c', 'p3.sh', 'Demo', 'p2.java'}
         Combining files in A and B {'p2.java', 'D1', 'p3.sh', 'Demo', 'p1.java', 'p
         1.c'}
         Combining files in A and B {'p2.java', 'D1', 'p3.sh', 'Demo', 'p1.java', 'p
         1.c'}
 In [ ]: |function--> reusuable -
          |-----> func defn
                                              syntax:-
                                                             def functionname(parameters):
                                                                    statement
                               |----> function call
                                                                functionname()
In [44]: def display(): # simple function defn without input arg/parameter
              print("Im inside the display function")
In [45]: display
Out[45]: <function __main__.display()>
In [46]: | display()
         Im inside the display function
In [47]: type(display)
Out[47]: function
In [50]: def f1():
              print("Im inside F1")
         def f2():
              print("Im inside F2")
         f2()
         f1()
         Im inside F2
         Im inside F1
```

```
In [52]: def f1():
             print("Im inside F1")
             f2()
             print("Out of F1")
         def f2():
             print("IM inside F2")
             print("Out of F2")
         print("Start of Main Script")
         f1()
         print("End of Main")
         Start of Main Script
         Im inside F1
         IM inside F2
         Out of F2
         Out of F1
         End of Main
In [57]: def display var():
             var=1000
             print("End of function display", var)
         print("main script started")
         display_var()
         print("Still in main script")
                                                    # var is local to function
         print(var)
         main script started
         End of function display 1000
         Still in main script
         NameError
                                                    Traceback (most recent call last)
         Cell In[57], line 8
               6 display_var()
               7 print("Still in main script")
         ---> 8 print(var)
         NameError: name 'var' is not defined
```

```
In [59]: #1. return
         def display_var():
             var=1000
             print("End of function display", var)
             return var
         print("main script started")
         var1=display var()
         print("Still in main script")
         print(var1)
         main script started
         End of function display 1000
         Still in main script
         1000
In [60]: #2. global
         def display_var():
             global var
                                            # global var declaration
             var=1000
             print("End of function display", var)
         print("main script started")
         display_var()
         print("Still in main script")
         print(var)
         main script started
         End of function display 1000
         Still in main script
         1000
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