```
In [1]: car_list = [ 'Hona Accura', 'Honda Civic', 'Hona Odessy', 'Toyota Rav4', 'Toyota Cy
 In [3]:
         car_list
 Out[3]: ['Hona Accura',
           'Honda Civic',
           'Hona Odessy',
           'Toyota Rav4',
           'Toyota Cyana',
           'Tesla Cyber Truck',
           'Ford Ram',
           'Nissan Altima']
 In [5]: car_num = [ 1234, 4567, 8910, 111, 231, 123131 ]
 In [7]: car_num
 Out[7]: [1234, 4567, 8910, 111, 231, 123131]
In [9]: list_flot = [ 110.11, 22.22, 1212,00, 12131.12121]
In [11]: list_flot
Out[11]: [110.11, 22.22, 1212, 0, 12131.12121]
In [13]: list_bool = [ 'False', 'True']
In [15]: lits_bool
        NameError
                                                  Traceback (most recent call last)
        Cell In[15], line 1
        ----> 1 lits_bool
        NameError: name 'lits_bool' is not defined
In [17]: list_bool
Out[17]: ['False', 'True']
In [19]: list_mixed = [ 1233, 'Name' , 12121.222 , True, ['ABC', 'ASAS']]
In [21]: list_mixed
Out[21]: [1233, 'Name', 12121.222, True, ['ABC', 'ASAS']]
In [23]: print type(list_mixed)
         print type(list_bool)
         print type(list_flot)
         print type(car_num)
         print type(car_list)
```

```
Cell In[23], line 1
            print type(list_mixed)
        SyntaxError: Missing parentheses in call to 'print'. Did you mean print(...)?
In [25]: print type(car_list)
          Cell In[25], line 1
            print type(car_list)
        SyntaxError: Missing parentheses in call to 'print'. Did you mean print(...)?
In [27]: type(car_list)
Out[27]: list
In [29]: print type(car_list);
          Cell In[29], line 1
            print type(car_list);
        SyntaxError: Missing parentheses in call to 'print'. Did you mean print(...)?
In [31]: print (type(list_mixed))
         print (type(list_bool))
         print (type(list_flot))
         print (type(car_num))
         print (type(car_list))
        <class 'list'>
        <class 'list'>
        <class 'list'>
        <class 'list'>
        <class 'list'>
In [33]: print (type(list_mixed[4]))
        <class 'list'>
In [35]: print (type(list_mixed[3]))
        <class 'bool'>
In [37]: print (type(list_mixed[2]))
        <class 'float'>
In [39]: print (type(list_mixed[0]))
        <class 'int'>
In [41]: print (type(list_mixed[1]))
        <class 'str'>
In [43]: print (list_mixed[4])
        ['ABC', 'ASAS']
```

```
In [45]: print (list_mixed[2])
        12121.222
In [47]: print (index.list_mixed[4])
        NameError
                                                  Traceback (most recent call last)
        Cell In[47], line 1
        ----> 1 print (index.list_mixed[4])
        NameError: name 'index' is not defined
In [49]: print (list_mixed.index[4])
        TypeError
                                                  Traceback (most recent call last)
        Cell In[49], line 1
        ----> 1 print (list_mixed.index[4])
        TypeError: 'builtin function or method' object is not subscriptable
In [51]: list_mixed.index[4]
                                                 Traceback (most recent call last)
        TypeError
        Cell In[51], line 1
        ----> 1 list_mixed.index[4]
        TypeError: 'builtin_function_or_method' object is not subscriptable
In [53]: len.list_mixed[4]
        AttributeError
                                                  Traceback (most recent call last)
        Cell In[53], line 1
        ----> 1 len.list_mixed[4]
        AttributeError: 'builtin_function_or_method' object has no attribute 'list_mixed'
In [55]: len(list_mixed[4])
Out[55]: 2
In [57]: len(car_list)
Out[57]: 8
In [59]: car_list
```

```
Out[59]: ['Hona Accura',
           'Honda Civic',
           'Hona Odessy',
           'Toyota Rav4',
           'Toyota Cyana',
           'Tesla Cyber Truck',
           'Ford Ram',
           'Nissan Altima']
In [61]: car_lits[-1]
        NameError
                                                   Traceback (most recent call last)
        Cell In[61], line 1
        ----> 1 car_lits[-1]
        NameError: name 'car_lits' is not defined
In [63]: car_lits[1]
        NameError
                                                   Traceback (most recent call last)
        Cell In[63], line 1
        ----> 1 car_lits[1]
        NameError: name 'car_lits' is not defined
In [65]: car_list[-1]
Out[65]: 'Nissan Altima'
In [67]:
         car_list
Out[67]: ['Hona Accura',
           'Honda Civic',
           'Hona Odessy',
           'Toyota Rav4',
           'Toyota Cyana',
           'Tesla Cyber Truck',
           'Ford Ram',
           'Nissan Altima'
In [69]: Car_list[0] = 'Honda Accura'
        NameError
                                                   Traceback (most recent call last)
        Cell In[69], line 1
        ----> 1 Car_list[0] = 'Honda Accura'
        NameError: name 'Car_list' is not defined
In [71]: Car_list[0] = 'Honda Lexis'
```

```
NameError
                                                   Traceback (most recent call last)
        Cell In[71], line 1
        ----> 1 Car_list[0] = 'Honda Lexis'
        NameError: name 'Car_list' is not defined
In [73]: car_list[0].update() = 'Honda Lexis'
          Cell In[73], line 1
            car_list[0].update() = 'Honda Lexis'
        SyntaxError: cannot assign to function call here. Maybe you meant '==' instead of
        '='?
In [75]: car_list[0].update() == 'Honda Lexis'
        AttributeError
                                                   Traceback (most recent call last)
        Cell In[75], line 1
        ----> 1 car_list[0].update() == 'Honda Lexis'
        AttributeError: 'str' object has no attribute 'update'
In [77]: car_list[1] = 'Honda'
In [79]:
         car_list
Out[79]: ['Hona Accura',
           'Honda',
           'Hona Odessy',
           'Toyota Rav4',
           'Toyota Cyana',
           'Tesla Cyber Truck',
           'Ford Ram',
           'Nissan Altima']
In [81]: car_list[1] = 'Honda Lexis'
In [83]: car_list
Out[83]: ['Hona Accura',
           'Honda Lexis',
           'Hona Odessy',
           'Toyota Rav4',
           'Toyota Cyana',
           'Tesla Cyber Truck',
           'Ford Ram',
           'Nissan Altima']
In [85]: car_list[0] = 'Hona City'
In [87]: car_list
```

```
Out[87]: ['Hona City',
           'Honda Lexis',
           'Hona Odessy',
           'Toyota Rav4',
           'Toyota Cyana',
           'Tesla Cyber Truck',
           'Ford Ram',
           'Nissan Altima']
In [89]: car_list.append() = 'Amnasador'
          Cell In[89], line 1
            car_list.append() = 'Amnasador'
        SyntaxError: cannot assign to function call here. Maybe you meant '==' instead of
        '='?
In [91]: car_list.append('Amnasador')
In [93]: car_list
Out[93]: ['Hona City',
           'Honda Lexis',
           'Hona Odessy',
           'Toyota Rav4',
           'Toyota Cyana',
           'Tesla Cyber Truck',
           'Ford Ram',
           'Nissan Altima',
           'Amnasador']
In [95]: car_list.append('Maruthi', 'Ford', 'Mahandra')
        TypeError
                                                   Traceback (most recent call last)
        Cell In[95], line 1
        ---> 1 car_list.append('Maruthi', 'Ford', 'Mahandra')
        TypeError: list.append() takes exactly one argument (3 given)
In [97]: car_list.append('Maruthi')
In [99]: car_list
Out[99]: ['Hona City',
           'Honda Lexis',
           'Hona Odessy',
           'Toyota Rav4',
           'Toyota Cyana',
           'Tesla Cyber Truck',
           'Ford Ram',
           'Nissan Altima',
           'Amnasador',
           'Maruthi']
```

```
In [101...
           car_list.insert('Mahendra')
         TypeError
                                                      Traceback (most recent call last)
         Cell In[101], line 1
         ----> 1 car_list.insert('Mahendra')
         TypeError: insert expected 2 arguments, got 1
In [103...
           car_list.insert(9, 'Mahendra')
In [105...
           car_list
Out[105...
           ['Hona City',
            'Honda Lexis',
            'Hona Odessy',
            'Toyota Rav4',
            'Toyota Cyana',
            'Tesla Cyber Truck',
            'Ford Ram',
            'Nissan Altima',
            'Amnasador',
            'Mahendra',
            'Maruthi']
In [107...
           car_list.insert(len(car_list), 'Mahendra')
In [109...
           car_list
Out[109...
           ['Hona City',
            'Honda Lexis',
            'Hona Odessy',
            'Toyota Rav4',
            'Toyota Cyana',
            'Tesla Cyber Truck',
            'Ford Ram',
            'Nissan Altima',
            'Amnasador',
            'Mahendra',
            'Maruthi',
            'Mahendra']
In [111...
           len(car_list)
Out[111...
           12
           car_list.insert(len(car_list), 'Tata Indica')
In [113...
In [115...
           car_list
```

```
['Hona City',
Out[115...
            'Honda Lexis',
            'Hona Odessy',
            'Toyota Rav4',
            'Toyota Cyana',
            'Tesla Cyber Truck',
            'Ford Ram',
            'Nissan Altima',
            'Amnasador',
            'Mahendra',
            'Maruthi',
            'Mahendra',
            'Tata Indica']
In [117...
          car_list.extend( 'Tata Somo', 'Mahindra Scarpio' )
         TypeError
                                                     Traceback (most recent call last)
         Cell In[117], line 1
         ----> 1 car_list.extend( 'Tata Somo', 'Mahindra Scarpio' )
         TypeError: list.extend() takes exactly one argument (2 given)
           car_list.extend( ['Tata Somo', 'Mahindra Scarpio'] )
In [119...
In [121...
           car_list
Out[121...
           ['Hona City',
            'Honda Lexis',
            'Hona Odessy',
            'Toyota Rav4',
            'Toyota Cyana',
            'Tesla Cyber Truck',
            'Ford Ram',
            'Nissan Altima',
            'Amnasador',
            'Mahendra',
            'Maruthi',
            'Mahendra',
            'Tata Indica',
            'Tata Somo',
            'Mahindra Scarpio']
In [123...
          Car_list2 = [ 'BMW', 'lucid', 'Ravaion' ]
In [125...
          car_list
```

```
Out[125...
           ['Hona City',
            'Honda Lexis',
            'Hona Odessy',
            'Toyota Rav4',
            'Toyota Cyana',
            'Tesla Cyber Truck',
            'Ford Ram',
            'Nissan Altima',
            'Amnasador',
            'Mahendra',
            'Maruthi',
            'Mahendra',
            'Tata Indica',
            'Tata Somo',
            'Mahindra Scarpio']
In [127... Car_list2
Out[127... ['BMW', 'lucid', 'Ravaion']
In [129...
          Total_cars = Car_list + Car_list2
         NameError
                                                    Traceback (most recent call last)
         Cell In[129], line 1
         ----> 1 Total_cars = Car_list + Car_list2
         NameError: name 'Car_list' is not defined
In [131... Total_cars = Car_list[] + Car_list2[]
           Cell In[131], line 1
             Total_cars = Car_list[] + Car_list2[]
         SyntaxError: invalid syntax
In [133...
         Total_cars += Car_list + Car_list2
         NameError
                                                   Traceback (most recent call last)
         Cell In[133], line 1
         ----> 1 Total_cars = Car_list + Car_list2
         NameError: name 'Car_list' is not defined
In [135... Total_cars += Car_list + Car_list2
         NameError
                                                  Traceback (most recent call last)
         Cell In[135], line 1
         ----> 1 Total_cars += Car_list + Car_list2
         NameError: name 'Total_cars' is not defined
         Car list
In [137...
```

```
NameError
                                                     Traceback (most recent call last)
         Cell In[137], line 1
         ----> 1 Car_list
         NameError: name 'Car_list' is not defined
In [139...
          car_list
Out[139...
           ['Hona City',
            'Honda Lexis',
            'Hona Odessy',
            'Toyota Rav4',
            'Toyota Cyana',
            'Tesla Cyber Truck',
            'Ford Ram',
            'Nissan Altima',
            'Amnasador',
            'Mahendra',
            'Maruthi',
            'Mahendra',
            'Tata Indica',
            'Tata Somo',
            'Mahindra Scarpio']
In [141...
          car_list2
         NameError
                                                     Traceback (most recent call last)
         Cell In[141], line 1
         ----> 1 car_list2
         NameError: name 'car_list2' is not defined
In [143...
          car_list2
         NameError
                                                     Traceback (most recent call last)
         Cell In[143], line 1
         ----> 1 car_list2
         NameError: name 'car_list2' is not defined
          Car_list2
In [145...
Out[145... ['BMW', 'lucid', 'Ravaion']
In [147...
          Car_list
         NameError
                                                     Traceback (most recent call last)
         Cell In[147], line 1
         ----> 1 Car_list
         NameError: name 'Car_list' is not defined
```

```
In [149...
           car_list
           Car_list2
           ['BMW', 'lucid', 'Ravaion']
Out[149...
In [151...
           car_list
Out[151...
            ['Hona City',
             'Honda Lexis',
             'Hona Odessy',
             'Toyota Rav4',
             'Toyota Cyana',
             'Tesla Cyber Truck',
             'Ford Ram',
             'Nissan Altima',
             'Amnasador',
             'Mahendra',
             'Maruthi',
             'Mahendra',
             'Tata Indica',
             'Tata Somo',
             'Mahindra Scarpio']
           Totalcars = car_list + Car_list2
In [155...
           Totalcars
In [157...
Out[157...
            ['Hona City',
             'Honda Lexis',
             'Hona Odessy',
             'Toyota Rav4',
             'Toyota Cyana',
             'Tesla Cyber Truck',
             'Ford Ram',
             'Nissan Altima',
             'Amnasador',
             'Mahendra',
             'Maruthi',
             'Mahendra',
             'Tata Indica',
             'Tata Somo',
             'Mahindra Scarpio',
             'BMW',
             'lucid',
             'Ravaion']
In [159...
           Totalcars.index('Ravaion')
Out[159...
           17
In [161...
           Totalcars.remove('Mahendra')
In [163...
           Totalcars
```

```
Out[163...
           ['Hona City',
             'Honda Lexis',
             'Hona Odessy',
             'Toyota Rav4',
             'Toyota Cyana',
             'Tesla Cyber Truck',
             'Ford Ram',
             'Nissan Altima',
             'Amnasador',
             'Maruthi',
             'Mahendra',
             'Tata Indica',
             'Tata Somo',
             'Mahindra Scarpio',
             'BMW',
             'lucid',
             'Ravaion']
In [165...
           len(Totalcars)
Out[165...
           17
In [167...
           Totalcars.pop('Mahendra')
         TypeError
                                                      Traceback (most recent call last)
         Cell In[167], line 1
         ----> 1 Totalcars.pop('Mahendra')
         TypeError: 'str' object cannot be interpreted as an integer
In [169...
           Totalcars.index('Mahendra')
Out[169...
           10
In [171...
           Totalcars.pop(10)
Out[171...
            'Mahendra'
           Totalcars
In [173...
```

```
['Hona City',
Out[173...
             'Honda Lexis',
             'Hona Odessy',
             'Toyota Rav4',
             'Toyota Cyana',
             'Tesla Cyber Truck',
             'Ford Ram',
             'Nissan Altima',
             'Amnasador',
             'Maruthi',
             'Tata Indica',
             'Tata Somo',
             'Mahindra Scarpio',
             'BMW',
             'lucid',
             'Ravaion']
In [175...
           Totalcars += ['Mahendra Thour', 'Mahendra Jeep']
In [177...
           Totalcars
Out[177...
           ['Hona City',
             'Honda Lexis',
             'Hona Odessy',
             'Toyota Rav4',
             'Toyota Cyana',
             'Tesla Cyber Truck',
             'Ford Ram',
             'Nissan Altima',
             'Amnasador',
             'Maruthi',
             'Tata Indica',
             'Tata Somo',
             'Mahindra Scarpio',
             'BMW',
             'lucid',
             'Ravaion',
             'Mahendra Thour',
             'Mahendra Jeep']
In [179...
           Totalcars.copy()
```

```
['Hona City',
Out[179...
            'Honda Lexis',
            'Hona Odessy',
            'Toyota Rav4',
            'Toyota Cyana',
            'Tesla Cyber Truck',
            'Ford Ram',
            'Nissan Altima',
            'Amnasador',
            'Maruthi',
            'Tata Indica',
            'Tata Somo',
            'Mahindra Scarpio',
            'BMW',
            'lucid',
            'Ravaion',
            'Mahendra Thour',
            'Mahendra Jeep']
In [181...
          Totalcars.sort(*, key=Mahendra, reverse=False)
           Cell In[181], line 1
             Totalcars.sort(*, key=Mahendra, reverse=False)
         SyntaxError: Invalid star expression
In [183...
          Totalcars.sort(*, key='Mahendra', reverse=False)
           Cell In[183], line 1
             Totalcars.sort(*, key='Mahendra', reverse=False)
         SyntaxError: Invalid star expression
In [185...
          Totalcars.sort( key=Mahendra, reverse=False)
         NameError
                                                    Traceback (most recent call last)
         Cell In[185], line 1
         ----> 1 Totalcars.sort( key=Mahendra, reverse=False)
         NameError: name 'Mahendra' is not defined
  In [ ]: Totalcars.sort(*, key=Mahendra, reverse=False)
In [187...
          Totalcars.sort(reverse=False)
In [189...
          Totalcars
```

```
Out[189...
           ['Amnasador',
             'BMW',
             'Ford Ram',
             'Hona City',
             'Hona Odessy',
             'Honda Lexis',
             'Mahendra Jeep',
             'Mahendra Thour',
             'Mahindra Scarpio',
             'Maruthi',
             'Nissan Altima',
             'Ravaion',
             'Tata Indica',
             'Tata Somo',
             'Tesla Cyber Truck',
             'Toyota Cyana',
             'Toyota Rav4',
             'lucid']
In [191...
           Totalcars.sort(reverse=True)
           Totalcars
In [193...
Out[193...
           ['lucid',
            'Toyota Rav4',
             'Toyota Cyana',
             'Tesla Cyber Truck',
             'Tata Somo',
             'Tata Indica',
             'Ravaion',
             'Nissan Altima',
             'Maruthi',
             'Mahindra Scarpio',
             'Mahendra Thour',
             'Mahendra Jeep',
             'Honda Lexis',
             'Hona Odessy',
             'Hona City',
             'Ford Ram',
             'BMW',
             'Amnasador']
In [195...
           Totalcars.reverse()
           Totalcars
In [197...
```

```
Out[197...
           ['Amnasador',
             'BMW',
             'Ford Ram',
             'Hona City',
             'Hona Odessy',
             'Honda Lexis',
             'Mahendra Jeep',
             'Mahendra Thour',
             'Mahindra Scarpio',
             'Maruthi',
             'Nissan Altima',
             'Ravaion',
             'Tata Indica',
             'Tata Somo',
             'Tesla Cyber Truck',
             'Toyota Cyana',
             'Toyota Rav4',
             'lucid']
In [199...
           print (Totalcars.reverse())
         None
In [201...
           print(Totalcars.reverse())
         None
           Totalcars.reverse()
In [203...
In [205...
           Totalcars
Out[205...
           ['lucid',
             'Toyota Rav4',
             'Toyota Cyana',
             'Tesla Cyber Truck',
             'Tata Somo',
             'Tata Indica',
             'Ravaion',
             'Nissan Altima',
             'Maruthi',
             'Mahindra Scarpio',
             'Mahendra Thour',
             'Mahendra Jeep',
             'Honda Lexis',
             'Hona Odessy',
             'Hona City',
             'Ford Ram',
             'BMW',
             'Amnasador']
In [207...
           Totalcars.count()
```

```
TypeError
                                                      Traceback (most recent call last)
         Cell In[207], line 1
         ----> 1 Totalcars.count()
         TypeError: list.count() takes exactly one argument (0 given)
In [209...
          Totalcars.append('BMW')
In [211...
           Totalcars
Out[211...
           ['lucid',
            'Toyota Rav4',
            'Toyota Cyana',
            'Tesla Cyber Truck',
            'Tata Somo',
            'Tata Indica',
            'Ravaion',
            'Nissan Altima',
            'Maruthi',
            'Mahindra Scarpio',
            'Mahendra Thour',
            'Mahendra Jeep',
            'Honda Lexis',
            'Hona Odessy',
            'Hona City',
            'Ford Ram',
            'BMW',
            'Amnasador',
            'BMW']
           Totalcars.count('BMW')
In [213...
Out[213...
In [215...
           total_car_set = Totalcars
In [217...
          total_car_set
```

```
Out[217...
           ['lucid',
            'Toyota Rav4',
            'Toyota Cyana',
            'Tesla Cyber Truck',
            'Tata Somo',
            'Tata Indica',
            'Ravaion',
            'Nissan Altima',
            'Maruthi',
            'Mahindra Scarpio',
            'Mahendra Thour',
            'Mahendra Jeep',
            'Honda Lexis',
            'Hona Odessy',
            'Hona City',
            'Ford Ram',
            'BMW',
            'Amnasador',
            'BMW']
In [219...
           total_car_set.clear()
In [221...
          total_car_set
Out[221...
           []
In [223...
           del total_car_set
In [225...
          total_car_set
         NameError
                                                     Traceback (most recent call last)
         Cell In[225], line 1
         ----> 1 total_car_set
         NameError: name 'total_car_set' is not defined
          set Totalcars_set = Totalcars
In [227...
           Cell In[227], line 1
              set Totalcars_set = Totalcars
         SyntaxError: invalid syntax
In [229...
          set(Totalcars_set) = Totalcars
           Cell In[229], line 1
             set(Totalcars_set) = Totalcars
         SyntaxError: cannot assign to function call here. Maybe you meant '==' instead of
In [231...
          set Totalcars_set
```

```
Cell In[231], line 1
              set Totalcars_set
         SyntaxError: invalid syntax
In [233...
           set(Totalcars_set)
         NameError
                                                      Traceback (most recent call last)
         Cell In[233], line 1
         ----> 1 set(Totalcars_set)
         NameError: name 'Totalcars_set' is not defined
           Totalcars_set = set(Totalcars)
In [235...
In [237...
           Totalcars_set
Out[237...
           set()
In [239...
           Totalcars
           []
Out[239...
           total_cars = ['lucid',
In [241...
            'Toyota Rav4',
            'Toyota Cyana',
            'Tesla Cyber Truck',
            'Tata Somo',
            'Tata Indica',
            'Ravaion',
            'Nissan Altima',
            'Maruthi',
            'Mahindra Scarpio',
            'Mahendra Thour',
            'Mahendra Jeep',
            'Honda Lexis',
            'Hona Odessy',
            'Hona City',
            'Ford Ram',
            'BMW',
            'Amnasador',
            'BMW']
In [243...
           Totalcars
Out[243...
           []
In [245...
          total_cars
```

```
['lucid',
Out[245...
            'Toyota Rav4',
             'Toyota Cyana',
             'Tesla Cyber Truck',
             'Tata Somo',
             'Tata Indica',
             'Ravaion',
             'Nissan Altima',
             'Maruthi',
             'Mahindra Scarpio',
             'Mahendra Thour',
             'Mahendra Jeep',
             'Honda Lexis',
             'Hona Odessy',
             'Hona City',
             'Ford Ram',
             'BMW',
             'Amnasador',
             'BMW']
In [247...
           totalcarset = set(total_cars)
In [249...
           totalcarset
Out[249...
           {'Amnasador',
             'BMW',
             'Ford Ram',
             'Hona City',
             'Hona Odessy',
             'Honda Lexis',
             'Mahendra Jeep',
             'Mahendra Thour',
             'Mahindra Scarpio',
             'Maruthi',
             'Nissan Altima',
             'Ravaion',
             'Tata Indica',
             'Tata Somo',
             'Tesla Cyber Truck',
             'Toyota Cyana',
             'Toyota Rav4',
             'lucid'}
In [251...
           import copy
In [253...
           new_car_list = copy.deepcopy(total_cars)
In [255...
           new_car_list
```

```
Out[255...
           ['lucid',
            'Toyota Rav4',
             'Toyota Cyana',
             'Tesla Cyber Truck',
             'Tata Somo',
             'Tata Indica',
             'Ravaion',
             'Nissan Altima',
             'Maruthi',
             'Mahindra Scarpio',
             'Mahendra Thour',
             'Mahendra Jeep',
             'Honda Lexis',
             'Hona Odessy',
             'Hona City',
             'Ford Ram',
             'BMW',
             'Amnasador',
             'BMW']
In [257...
           another_car_list = total_cars
In [259...
           another_car_list
Out[259...
           ['lucid',
             'Toyota Rav4',
             'Toyota Cyana',
             'Tesla Cyber Truck',
             'Tata Somo',
             'Tata Indica',
             'Ravaion',
             'Nissan Altima',
             'Maruthi',
             'Mahindra Scarpio',
             'Mahendra Thour',
             'Mahendra Jeep',
             'Honda Lexis',
             'Hona Odessy',
             'Hona City',
             'Ford Ram',
             'BMW',
             'Amnasador',
             'BMW']
In [261...
           total_cars
```

```
Out[261...
           ['lucid',
             'Toyota Rav4',
             'Toyota Cyana',
             'Tesla Cyber Truck',
             'Tata Somo',
             'Tata Indica',
             'Ravaion',
             'Nissan Altima',
             'Maruthi',
             'Mahindra Scarpio',
             'Mahendra Thour',
             'Mahendra Jeep',
             'Honda Lexis',
             'Hona Odessy',
             'Hona City',
             'Ford Ram',
             'BMW',
             'Amnasador',
             'BMW']
In [263...
           total_cars.remove('BMW')
In [265...
           total_cars
Out[265...
           ['lucid',
             'Toyota Rav4',
             'Toyota Cyana',
             'Tesla Cyber Truck',
             'Tata Somo',
             'Tata Indica',
             'Ravaion',
             'Nissan Altima',
             'Maruthi',
             'Mahindra Scarpio',
             'Mahendra Thour',
             'Mahendra Jeep',
             'Honda Lexis',
             'Hona Odessy',
             'Hona City',
             'Ford Ram',
             'Amnasador',
             'BMW']
           another_car_list
In [267...
```

```
['lucid',
Out[267...
             'Toyota Rav4',
             'Toyota Cyana',
             'Tesla Cyber Truck',
             'Tata Somo',
             'Tata Indica',
             'Ravaion',
             'Nissan Altima',
             'Maruthi',
             'Mahindra Scarpio',
             'Mahendra Thour',
             'Mahendra Jeep',
             'Honda Lexis',
             'Hona Odessy',
             'Hona City',
             'Ford Ram',
             'Amnasador',
             'BMW']
In [269...
           new_car_list
Out[269...
           ['lucid',
             'Toyota Rav4',
             'Toyota Cyana',
             'Tesla Cyber Truck',
             'Tata Somo',
             'Tata Indica',
             'Ravaion',
             'Nissan Altima',
             'Maruthi',
             'Mahindra Scarpio',
             'Mahendra Thour',
             'Mahendra Jeep',
             'Honda Lexis',
             'Hona Odessy',
             'Hona City',
             'Ford Ram',
             'BMW',
             'Amnasador',
             'BMW']
In [271...
           list_num = [ 10, 90, 20, 30, 50, 70, 40, 60, 80, 100 ]
In [273...
           list_num
           [10, 90, 20, 30, 50, 70, 40, 60, 80, 100]
Out[273...
In [275...
          list_num.max()
         AttributeError
                                                      Traceback (most recent call last)
         Cell In[275], line 1
         ----> 1 list_num.max()
         AttributeError: 'list' object has no attribute 'max'
```

```
print( max(list_num))
In [277...
         100
In [279...
          print( min(list_num))
         10
In [281...
          print( sum(list_num))
         550
In [283...
          print( sort(list_num))
         NameError
                                                       Traceback (most recent call last)
         Cell In[283], line 1
         ----> 1 print( sort(list_num))
         NameError: name 'sort' is not defined
In [285...
           list_num *= 2
In [287...
           list_num
Out[287...
           [10,
            90,
            20,
            30,
            50,
            70,
            40,
            60,
            80,
            100,
            10,
            90,
            20,
            30,
            50,
            70,
            40,
            60,
            80,
            100]
In [289...
           list_num.append(0)
In [291...
           list_num
```

```
Out[291...
            [10,
             90,
             20,
             30,
             50,
             70,
             40,
             60,
             80,
             100,
             10,
             90,
             20,
             30,
             50,
             70,
             40,
             60,
             80,
             100,
             0]
            all(list_num)
In [293...
Out[293...
            False
In [295...
            any(list_num)
Out[295...
            True
In [297...
            list_num.remove(0)
In [299...
            list_num
Out[299...
            [10,
             90,
             20,
             30,
             50,
             70,
             40,
             60,
             80,
             100,
             10,
             90,
             20,
             30,
             50,
             70,
             40,
             60,
             80,
             100]
```

```
In [301...
           all(list_num)
Out[301...
           True
In [303...
           any(list_num)
Out[303...
           True
           SLICING
           ! SLICING!!
In [307...
           list = [1,2,3,4,5,6,7,8]
In [309...
           list[0:3]
Out[309...
           [1, 2, 3]
In [311...
           list[:3]
Out[311...
           [1, 2, 3]
In [313...
           list[5:]
Out[313...
           [6, 7, 8]
In [315...
          list[0:-4]
Out[315... [1, 2, 3, 4]
In [317...
          list[0:-1]
Out[317... [1, 2, 3, 4, 5, 6, 7]
In [319...
          list[-2:-4]
Out[319...
           []
In [321...
           list[-6:-4]
Out[321... [3, 4]
In [323...
           list[0:5:2]
Out[323...
           [1, 3, 5]
In [325...
          list[0:5]
Out[325... [1, 2, 3, 4, 5]
          list[0:6]
In [327...
```

```
[1, 2, 3, 4, 5, 6]
Out[327...
In [329...
           list[0:6:2]
Out[329...
           [1, 3, 5]
In [331...
           list[0:6]
Out[331...
           [1, 2, 3, 4, 5, 6]
In [333...
          list[0:6:3]
Out[333... [1, 4]
In [335...
          list[0:6:4]
Out[335... [1, 5]
          x = 'Work'
In [337...
In [339...
          print(x)
         Work
In [341...
          x[]
           Cell In[341], line 1
             x[]
         SyntaxError: invalid syntax
In [343...
          x[0]
Out[343...
           'W'
In [345...
           x[2]
           'r'
Out[345...
In [347...
          a,b,c,d,e = X
         NameError
                                                      Traceback (most recent call last)
         Cell In[347], line 1
         ----> 1 a,b,c,d,e = X
         NameError: name 'X' is not defined
In [349... a,b,c,d = X
```

```
NameError
                                                    Traceback (most recent call last)
         Cell In[349], line 1
         ---> 1 a,b,c,d = X
         NameError: name 'X' is not defined
In [351...
         a, b, c, d = X
         NameError
                                                    Traceback (most recent call last)
         Cell In[351], line 1
         ----> 1 a, b, c, d = X
         NameError: name 'X' is not defined
In [353... list.extend()
         TypeError
                                                    Traceback (most recent call last)
         Cell In[353], line 1
         ----> 1 list.extend()
         TypeError: list.extend() takes exactly one argument (0 given)
In [355...
Out[355...
          'Work'
In [357...
          a, b, c, d = x
In [359... a, b, c, d
Out[359...
           ('W', 'o', 'r', 'k')
  In [ ]:
  In [ ]:
  In [ ]:
  In [ ]:
  In [ ]:
```