```
In [1]: #What is List?
In [15]: imran1 = 'Ghost'
         imran2 = 'Dahi'
         imran3 = 'Tamator'
In [12]: list_imran = ['ghost, 'dahi, 'tmater']
         print(list imran)
           File "<ipython-input-12-db561168d849>", line 1
             list_imran = ['ghost, 'dahi, 'tmater']
         SyntaxError: invalid syntax
In [86]: new_list = list_imran + ('hair cut', 'Beard')
         print('new_list')
         NameError
                                                    Traceback (most recent call last)
         <ipython-input-86-0261622743b4> in <module>
         ----> 1 new_list = list_imran + ('hair cut', 'Beard')
               2 print('new list')
         NameError: name 'list imran' is not defined
In [10]: print(new_list[5])
         NameError
                                                    Traceback (most recent call last)
         <ipython-input-10-094ced1b0fd6> in <module>
         ----> 1 print(new_list[5])
         NameError: name 'new_list' is not defined
In [16]: print(new_list[1:4:2])
                                                    Traceback (most recent call last)
         NameError
         <ipython-input-16-a18efd42a461> in <module>
         ----> 1 print(new_list[1:4:2])
         NameError: name 'new_list' is not defined
```

```
In [18]: print(new list[:4:2])
              Traceback (most recent call last)
       <ipython-input-18-79451b18f03f> in <module>
        ----> 1 print(new list[:4:2])
       NameError: name 'new_list' is not defined
       new_list = list_imran + ('hair cut', 'Beard')
In [20]:
       print(new list)
        # -5 -4 -3
                               -2
        #['gosht', 'dahi', 'tmater', 'hair cut', 'beard']
        ______
       NameError
                                          Traceback (most recent call last)
       <ipython-input-20-3335a7d464b0> in <module>
        ----> 1 new_list = list_imran + ('hair cut', 'Beard')
            2 print(new_list)
            3 # -5
                        -4
                               -3
            4 #['gosht', 'dahi', 'tmater', 'hair cut', 'beard']
       NameError: name 'list imran' is not defined
In [23]: print(new list[-1:-4])
        ______
       NameError
                                          Traceback (most recent call last)
       <ipython-input-23-9396b09aa5f3> in <module>
        ----> 1 print(new list[-1:-4])
       NameError: name 'new list' is not defined
In [26]:
       print(new_list[1:4])
                                          Traceback (most recent call last)
       <ipython-input-26-52dc27b81ebb> in <module>
        ----> 1 print(new list[1:4])
       NameError: name 'new_list' is not defined
```

```
In [28]: print(new list[-2:4:1])
                                                   Traceback (most recent call last)
         <ipython-input-28-60034ca0ef6c> in <module>
         ----> 1 print(new_list[-2:4:1])
         NameError: name 'new_list' is not defined
In [29]: #
             0 1
         11 = ["A", "B", "C"]
               -3 -2 -1
         #List(start:end:step)
         #start included
         #end excluded
         #step
           File "<ipython-input-29-b7027fb4ab5a>", line 2
             11 = ["A", "B", "C"]
         SyntaxError: can't assign to literal
In [34]: | 11 = ["A", "B", "C"]
         11[::]
         11
         11[:]
         11[0:]
         11[-3:]
         11[0:3]
Out[34]: ['A', 'B', 'C']
In [35]: | 11 = ["A", "B", "C"]
         11[-3:3]
Out[35]: ['A', 'B', 'C']
In [37]: | 11 = ["A", "B", "C"]
         11[-1:-4:-1]
Out[37]: ['C', 'B', 'A']
In [39]: | 11 = ["A", "B", "C"]
         11[-1:-4:-1]
         11[::-4]
Out[39]: ['C']
```

```
In [41]: | 11 = ["A", "B", "C"]
         11[-1:-4:-1]
         11[::-3]
Out[41]: ['C']
In [43]: | 11 = ["A", "B", "C"]
         11[-1:-4:-1]
         11[::-1]
Out[43]: ['C', 'B', 'A']
In [46]: new list.append('Moo dhona')
         print(list)
                                                    Traceback (most recent call last)
         NameError
         <ipython-input-46-26587bbbe5bf> in <module>
         ----> 1 new_list.append('Moo dhona')
               2 print(list)
         NameError: name 'new_list' is not defined
In [48]: new list.append('Moo dhona')
         print(new_list)
                                                    Traceback (most recent call last)
         NameError
         <ipython-input-48-1580b4b36675> in <module>
         ---> 1 new_list.append('Moo dhona')
               2 print(new_list)
         NameError: name 'new_list' is not defined
In [50]: del new_list[6]
         NameError
                                                    Traceback (most recent call last)
         <ipython-input-50-b97836043102> in <module>
         ----> 1 del new_list[6]
         NameError: name 'new_list' is not defined
```

```
In [52]: new list.remove('Moo dhona')
         print(new_list)
         NameError
                                                    Traceback (most recent call last)
         <ipython-input-52-dffe727007bd> in <module>
         ----> 1 new list.remove('Moo dhona')
               2 print(new_list)
         NameError: name 'new_list' is not defined
In [54]: | new_list.insert('3, 'Podina')
         print(new_list)
           File "<ipython-input-54-49b9cdc6d3f3>", line 1
             new list.insert('3, 'Podina')
         SyntaxError: invalid syntax
In [56]: new list[3] = 'Dhaniya'
         print(new_list)
         NameError
                                                    Traceback (most recent call last)
         <ipython-input-56-1dee569c676e> in <module>
         ----> 1 new list[3] = 'Dhaniya'
               2 print(new list)
         NameError: name 'new_list' is not defined
In [58]: #if a == b:
             a =+ b
         elif a>b:
              print('H1')
           File "<ipython-input-58-76fb574c3e14>", line 2
             a = + b
         IndentationError: unexpected indent
```

```
In [62]: person ='KRC'
          if person == 'KRC':
              print('Imran Bhai')
          elif person == 'PHR':
              print('Kaan saib')
          elif person == 'FSD':
              print('Mraan Khan')
          elif person == 'ISB':
              print('IK <3')</pre>
          else:
              print('Imran Khan Niazi')
          Imran Bhai
In [64]:
         person = 'KRC'
          if person == 'KRC':
              print('Imran Bhai')
          if person == 'PHR':
              print('Kaan saib')
          if person == 'FSD':
              print('Mraan Khan')
          if person == 'ISB':
              print('IK <3')</pre>
          else:
              print('Imran Khan Niazi')
          Imran Bhai
          Imran Khan Niazi
         person = 'KRC'
In [67]:
          if person == 'KRC':
              print('Imran Bhai')
          if person == 'PHR':
              print('Kaan saib')
          if person == 'FSD':
              print('Mraan Khan')
          if person == 'ISB':
              print('IK <3')</pre>
          else:
              print('Imran Khan Niazi')
          Imran Bhai
          Imran Khan Niazi
In [70]: | #for (int i = 10; i<=1; i--)
          for i in range(1,10,3):
              print(i)
          1
          7
```

```
In [72]: \#for (int i = 10; i <=1; i--)
          for i in range(1,10):
              print(i)
         1
         2
         3
         6
         7
         8
         9
In [75]: | task_to_find = 'Moo Dhona'
         if task_to_find == new_list[0]:
              print('Found')
          elif task to find == new list[1]:
              print('Found')
          for task in new list:
             #task = 'Dahi'
              if task to find == task:
                  print('Found')
         NameError
                                                     Traceback (most recent call last)
         <ipython-input-75-84cccb36acb9> in <module>
               1 task_to_find = 'Moo Dhona'
         ----> 2 if task to find == new list[0]:
                      print('Found')
               4 elif task_to_find == new_list[1]:
                      print('Found')
         NameError: name 'new_list' is not defined
In [77]: #task_to_find = 'Hair cut'
         for task in range(0,len(new_list)):
             \#task = 0
              if 'Hair cut' == task:
                  print('Found')
         NameError
                                                     Traceback (most recent call last)
         <ipython-input-77-58f1ece84185> in <module>
               1 #task to find = 'Hair cut'
          ----> 2 for task in range(0,len(new list)):
               3
                     \#task = 0
                      if 'Hair cut' == task:
               4
                          print('Found')
         NameError: name 'new list' is not defined
```

```
In [79]: | #task_to_find = 'Hair cut'
          for task in range(0,len(new_list)):
             \#task = 0
              if 'Hair cut' == new list[task]:
                  print('Found')
         NameError
                                                    Traceback (most recent call last)
         <ipython-input-79-5b878e68f2fe> in <module>
               1 #task to find = 'Hair cut'
          ----> 2 for task in range(0,len(new_list)):
               3
                     \#task = 0
                      if 'Hair cut' == new_list[task]:
               4
                          print('Found')
         NameError: name 'new list' is not defined
In [81]: | #task_to_find = 'Hair cut'
         for task in range(0,len(new list)):
             \#task = 0
              if 'Hair cut' == new_list[1]:
                  print('Found')
         NameError
                                                    Traceback (most recent call last)
         <ipython-input-81-3beb34d941be> in <module>
               1 #task to find = 'Hair cut'
         ----> 2 for task in range(0,len(new_list)):
               3
                     \#task = 0
                      if 'Hair cut' == new list[1]:
                          print('Found')
         NameError: name 'new_list' is not defined
In [83]: len(new_list)
         NameError
                                                    Traceback (most recent call last)
         <ipython-input-83-32bfa6056044> in <module>
         ----> 1 len(new list)
         NameError: name 'new list' is not defined
```

```
In [85]: | #task_to_find = 'Hair cut'
         for task in range(0,len(new_list)):
             \#task = 0
              if 'Hair cut' == new list[task]:
                  print('Found' + str(task))
                                                    Traceback (most recent call last)
         NameError
         <ipython-input-85-ed63c5a2671b> in <module>
               1 #task_to_find = 'Hair cut'
         ----> 2 for task in range(0,len(new list)):
                     \#task = 0
               4
                     if 'Hair cut' == new list[task]:
                          print('Found' + str(task))
         NameError: name 'new_list' is not defined
In [88]: new_list = list_imran + ('hair cut', 'Beard')
         print('new list')
         NameError
                                                    Traceback (most recent call last)
         <ipython-input-88-0261622743b4> in <module>
         ----> 1 new_list = list_imran + ('hair cut', 'Beard')
               2 print('new_list')
         NameError: name 'list imran' is not defined
In [90]: \#for (int i = 10; i <=1; i++)
         for i in range(1,10):
              print(i)
         1
         2
         3
         4
         5
         6
         7
         8
In [92]: | #for (int i = 10; i<=1; i++)
         if in range(1,10):
              print(i)
           File "<ipython-input-92-43656d473896>", line 2
             if in range(1,10):
         SyntaxError: invalid syntax
```

```
In [97]: #if a == b:
               a = + b
           elif a>b:
               print('a =+b')
            File "<ipython-input-97-2042ddb36e19>", line 2
          IndentationError: unexpected indent
 In [99]: a = 5
           if a>0:
               print('positive')
           elif a<0</pre>
               print('negative')
            File "<ipython-input-99-95c7d7237a5b>", line 4
               elif a<0
          SyntaxError: invalid syntax
In [101]: a = 5
           if a > 0:
               print('positive')
           elif a < 0:</pre>
               print('negative')
          positive
In [104]:
          subject1=50
           subject2=60
           subject3=70
           subject4=80
           subject5=90
           Average = (Subject1+subject2+subject3+subject4:subject5)/6
           print(average)
           if average > 80
           print('grade A')
           else
                                                      Traceback (most recent call last)
          <ipython-input-104-88320fb2f87c> in <module>
                 4 subject4=80
                 5 subject5=90
           ----> 6 print(average)
          NameError: name 'average' is not defined
```