```
[1]: #Q1
                Name = "VINEESHA"
               Age = "20"
print(Name)
                print(Age)
                 VINEESHA
 [2]: #Q2
                x="DataScience is used to extract meaningful insights"
               print(x.split())
               ['DataScience', 'is', 'used', 'to', 'extract', 'meaningful', 'insights']
 [5]: #Q3
                 def multiplication(n1,n2):
                         product = n1*n2
                          return product
                 res=multiplication(20,10)
               print(res)
                                                                                                                                                                                                                                                                                                                                                          ⑥↑↓占♀▮
 [6]: #04
               Dictionary = {'Arunachal Pradesh' : 'Itanagar' , 'Tamil Nadu ' : 'Chennai' , 'Telangana' : 'Hyderabad' , 'Maharastra' : 'Mumbai' , 'Goa' : 'Panaji'}
                print(Dictionary)
                 print(Dictionary.keys())
                print(Dictionary.values())
                 {'Arunachal Pradesh': 'Itanagar', 'Tamil Nadu ': 'Chennai', 'Telangana': 'Hyderabad', 'Maharastra': 'Mumbai', 'Goa': 'Panaji'}
dict_keys(['Arunachal Pradesh', 'Tamil Nadu ', 'Telangana', 'Maharastra', 'Goa'])
dict_values(['Itanagar', 'Chennai', 'Hyderabad', 'Mumbai', 'Panaji'])
[7]: #Q5
              def createList(n1,n2):
                         return list(range(n1.n2+1))
              n1,n2=1,1000
              print(createList(1,1000))
              [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 11
3, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 14
3, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 17
3, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 20
3, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 302, 231, 232, 23
3, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 26
3, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 29
3, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 33
3, 324, 325, 236, 237, 238, 239, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 485, 486, 447, 348, 349, 349, 548, 347, 348, 349, 349, 548, 548, 347, 348, 349, 340, 354, 354, 354, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 356, 351, 352, 355
```

```
3, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 990, 991, 992, 993, 994, 995, 996, 997, 988, 999, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 93, 924, 925, 926, 927, 928, 929, 930, 931, 932, 934, 935, 936, 937, 988, 989, 900, 961, 962, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 98
3, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000]
    [8]: #Q6
                import numpy as np
dim = 4
                identity_matrix = np.identity(dim,dtype="int")
print(identity_matrix)
                [[1 0 0 0]
                 [0 1 0 0]
[0 0 1 0]
                  [0 0 0 1]]
    [9]: #Q7
                import numpy as np
x = np.arange(1,10).reshape(3,3)
                print(x)
                [[1 2 3]
[4 5 6]
[7 8 9]]
 [10]: #Q8
                import numpy as np
arr1 = [2,3,4,5]
arr2 = [6,7,8,9]
                sum = np.add(arr1,arr2)
               print(sum)
                [ 8 10 12 14]
[11]: #Q9
               from datetime import datetime
                import pandas as pd
              start_date = datetime.strptime("2023-02-01" , "%Y-%m-%d")
end_date = datetime.strptime("2023-03-01" , "%Y-%m-%d")
              date_list = pd.date_range(start_date,end_date,freq=D)
print(f"Creating list of dates starting from{start_date} to {end_date}")
              print(date list)
              Creating list of dates starting from2023-02-01 00:00:00 to 2023-03-01 00:00:00
             Creating list of dates starting from2023-02-01 00:00:00 to 2023-03-01.

DatetimeIndex(['2023-02-01', '2023-02-02', '2023-02-04', '2023-02-04', '2023-02-05', '2023-02-06', '2023-02-07', '2023-02-08', '2023-02-07', '2023-02-10', '2023-02-11', '2023-02-12', '2023-02-13', '2023-02-11', '2023-02-11', '2023-02-12', '2023-02-13', '2023-02-18', '2023-02-19', '2023-02-20', '2023-02-21', '2023-02-21', '2023-02-22', '2023-02-23', '2023-02-24', '2023-02-25', '2023-02-26', '2023-02-28', '2023-03-01'],
                                             dtype='datetime64[ns]', freq='D')
[12]: #Q10
              import pandas as pd
data = {'Brand' : ['Maruthi', 'Renault', 'Hyndai'], 'Sales' : ['250', '200', '240']}
dataframe = pd.DataFrame.from_dict(data)
print(dataframe)
              0 Maruthi 250
1 Renault 200
2 Hyndai 240
```