```
In [1]: import matplotlib.pyplot as plt
         from mpl toolkits.mplot3d import Axes3D
          import pandas as pd
          import numpy as np
          import matplotlib.pyplot as plt
          import seaborn as sns
         %matplotlib inline
In [49]: raw dataset=pd.read csv("DadasB3D.csv",sep=",")
In [50]:
          DadasB3D = raw dataset.copy()
         DadasB3D.head()
Out[50]:
                           Altitude Longitude Depth_m
                    Well
                                                      ВΙ
          0 ABDULAZIZ-1 38.345084 39.805726
                                              2740.0 0.27
          1 ABDULAZIZ-1 38.345084
                                  39.805726
                                              2750.0 0.49
          2 ABDULAZIZ-1 38.345084 39.805726
                                              2760.0 0.47
          3 ABDULAZIZ-1 38.345084 39.805726
                                              2780.0 0.56
          4 ABDULAZIZ-1 38.345084 39.805726
                                              2790.0 0.23
In [51]: DadasB3D.shape
Out[51]: (165, 5)
In [52]: x= DadasB3D.iloc[:, 1].values
In [53]: y=DadasB3D.iloc[:, 2].values
In [54]: z = DadasB3D.iloc[:, 3].values
```

```
In [55]: colors= DadasB3D.iloc[:, 4].values
In [56]: x
Out[56]: array([38.345084, 38.345084, 38.345084, 38.345084, 38.345084, 38.345084,
                38.345084, 38.345084, 38.345084, 38.345084, 38.345084, 38.345084,
                38.345084, 38.345084, 38.345084, 38.345084, 38.345084, 38.120595,
                38.120595, 38.120595, 38.120595, 38.120595, 38.120595, 38.120595,
                38.120595, 38.120595, 38.120595, 38.120595, 38.120595, 38.120595,
                38.120595, 38.149422, 38.149422, 38.149422, 38.149422, 38.149422,
                38.149422, 38.149422, 38.149422, 38.149422, 38.149422, 38.149422,
                38.149422, 38.149422, 38.149422, 38.149422, 38.149422, 38.149422,
                38.149422, 38.149422, 38.149422, 37.229614, 37.229614, 37.229614,
                37.229614, 37.229614, 37.229614, 37.229614, 37.229614, 37.229614,
                37.229614, 37.229614, 37.229614, 37.229614, 37.229614, 37.229614,
                37.229614, 37.229614, 37.229614, 38.086555, 38.086555, 38.086555,
                38.086555, 38.086555, 38.086555, 38.086555, 38.017136, 38.017136,
                38.017136, 38.017136, 38.017136, 38.017136, 38.017136, 38.017136,
                38.017136, 38.017136, 38.017136, 38.116071, 38.116071, 38.116071,
                38.116071, 38.116071, 38.116071, 38.116071, 38.116071, 38.116071,
                38.116071, 37.287216, 37.287216, 37.287216, 37.287216, 37.287216,
                37.287216, 37.287216, 37.287216, 37.287216, 37.287216, 37.287216,
                37.287216, 37.287216, 37.287216, 37.287216, 37.287216, 37.287216,
                37.287216, 37.287216, 37.287216, 37.287216, 37.287216, 37.287216,
                37.287216, 37.287216, 37.287216, 37.287216, 37.287216, 37.287216,
                37.287216, 37.287216, 37.287216, 37.287216, 37.287216, 37.287216,
                37.287216, 38.003842, 38.003842, 38.003842, 38.003842, 38.003842,
                38.003842, 38.003842, 38.003842, 38.003842, 38.003842, 38.003842,
                38.003842, 38.003842, 37.892258, 37.892258, 37.892258, 37.892258,
                37.892258, 37.892258, 37.892258, 37.892258, 37.892258, 37.892258,
                37.892258, 37.892258, 37.892258, 37.892258, 37.892258, 37.892258,
                37.892258, 37.892258, 37.892258])
```

```
In [57]: y
Out[57]: array([39.805726, 39.805726, 39.805726, 39.805726, 39.805726, 39.805726,
                39.805726, 39.805726, 39.805726, 39.805726, 39.805726, 39.805726,
                39.805726, 39.805726, 39.805726, 39.805726, 39.805726, 39.765326,
                39.765326, 39.765326, 39.765326, 39.765326, 39.765326, 39.765326,
                39.765326, 39.765326, 39.765326, 39.765326, 39.765326,
                39.765326, 39.858795, 39.858795, 39.858795, 39.858795, 39.858795,
                39.858795, 39.858795, 39.858795, 39.858795, 39.858795, 39.858795,
                39.858795, 39.858795, 39.858795, 39.858795, 39.858795, 39.858795,
                39.858795, 39.858795, 39.858795, 41.482876, 41.482876, 41.482876,
                41.482876, 41.482876, 41.482876, 41.482876, 41.482876, 41.482876,
                41.482876, 41.482876, 41.482876, 41.482876, 41.482876, 41.482876,
                41.482876, 41.482876, 41.482876, 39.790732, 39.790732, 39.790732,
                39.790732, 39.790732, 39.790732, 39.790732, 39.803005, 39.803005,
                39.803005, 39.803005, 39.803005, 39.803005, 39.803005, 39.803005,
                39.803005, 39.803005, 39.803005, 39.720608, 39.720608, 39.720608,
                39.720608, 39.720608, 39.720608, 39.720608, 39.720608, 39.720608,
                39.720608, 40.852749, 40.852749, 40.852749, 40.852749, 40.852749,
                40.852749, 40.852749, 40.852749, 40.852749, 40.852749, 40.852749,
                40.852749, 40.852749, 40.852749, 40.852749, 40.852749, 40.852749,
                40.852749, 40.852749, 40.852749, 40.852749, 40.852749, 40.852749,
                40.852749, 40.852749, 40.852749, 40.852749, 40.852749, 40.852749,
                40.852749, 40.852749, 40.852749, 40.852749, 40.852749, 40.852749,
                40.852749, 40.671948, 40.671948, 40.671948, 40.671948, 40.671948,
                40.671948, 40.671948, 40.671948, 40.671948, 40.671948, 40.671948,
                40.671948, 40.671948, 40.818528, 40.818528, 40.818528, 40.818528,
                40.818528, 40.818528, 40.818528, 40.818528, 40.818528, 40.818528,
                40.818528, 40.818528, 40.818528, 40.818528, 40.818528, 40.818528,
                40.818528, 40.818528, 40.818528])
```

```
In [58]: colors
Out[58]: array([0.27, 0.49, 0.47, 0.56, 0.23, 0.56, 0.23, 0.58, 0.6, 0.56, 0.54,
                0.56, 0.54, 0.46, 0.51, 0.6, 0.36, 0.69, 0.89, 0.58, 0.72, 0.72,
                0.58, 0.57, 0.73, 0.48, 0.59, 0.53, 0.63, 0.65, 0.69, 0.58, 0.48,
                0.58, 0.53, 0.48, 0.56, 0.61, 0.49, 0.56, 0.51, 0.66, 0.49, 0.45,
                0.54, 0.57, 0.55, 0.56, 0.49, 0.49, 0.62, 0.82, 0.78, 0.68, 0.62,
                0.67, 0.72, 0.66, 0.76, 0.76, 0.81, 0.86, 0.91, 0.84, 0.75, 0.9,
                0.91, 0.88, 0.77, 0.69, 0.33, 0.27, 0.81, 0.83, 0.34, 0.73, 0.77,
                0.73, 0.56, 0.74, 0.73, 0.27, 0.59, 0.31, 0.26, 0.24, 0.33, 0.72,
                0.38, 0.61, 0.55, 0.52, 0.52, 0.78, 0.34, 0.61, 0.33, 0.6, 0.52,
                0.59, 0.65, 0.59, 0.8, 0.5, 0.63, 0.41, 0.41, 0.88, 0.9, 0.67,
                0.97, 0.93, 0.72, 0.53, 0.38, 0.41, 0.39, 0.39, 0.49, 0.67, 0.44,
                0.47, 0.43, 0.42, 0.51, 0.37, 0.36, 0.46, 0.41, 0.34, 0.41, 0.43,
                0.42, 0.43, 0.62, 0.23, 0.63, 0.36, 0.49, 0.57, 0.78, 0.75, 0.59,
                0.56, 0.53, 0.57, 0.61, 0.6, 0.58, 0.57, 0.75, 0.67, 0.97, 1.
                0.65, 0.6, 0.55, 0.42, 0.33, 0.61, 0.62, 0.31, 0.53, 0.41, 0.46])
```

```
In [63]: # 3D scatter plot olusturun
fig = plt.figure(figsize=(35, 10))
ax = fig.add_subplot(111, projection='3d')
ax.scatter(x, y, z, c=colors, cmap='jet')

# Renk cubuğunu ekleyin
cbar = plt.colorbar(ax.scatter(x, y, z, c=colors, cmap='jet'))
cbar.set_label('Kırılganlık İndeksi')

# Eksen etiketlerini ayarlayın
ax.set_xlabel('Enlem')
ax.set_ylabel('Boylam')
ax.set_zlabel('Berinlik')
font_size = 34

# Grafiği gösterin
plt.show()
```

1.0

- 0.9

- 0.8

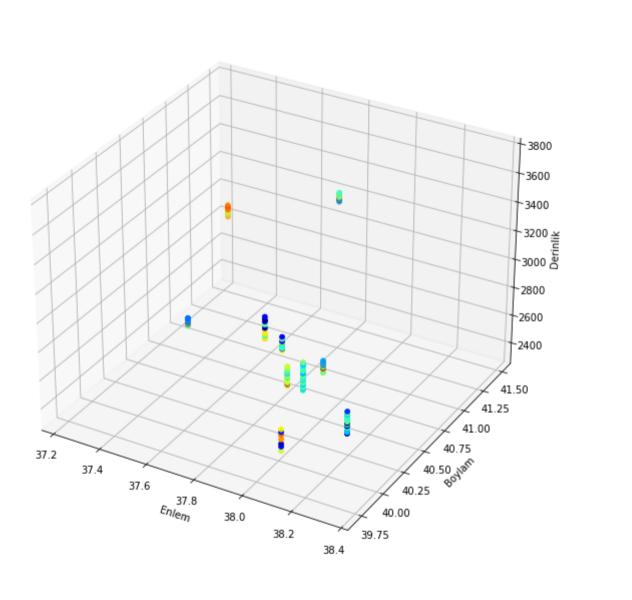
- 0.7

9.0 Kırılganlık İndeksi

- 0.5

- 0.4

- 0.3



```
In [23]: import matplotlib.pyplot as plt
         import numpy as np
         # Verileri oluştur
         Data = [
                [38.345084, 39.805726,
                                                , 0.27
                                        2.74
                [38.345084, 39.805726,
                                                , 0.49
                                        2.75
                                                            1,
                                        2.76
                [38.345084, 39.805726,
                                                , 0.47
                                                            ],
                                        2.78
                [38.345084, 39.805726,
                                                , 0.56
                [38.345084, 39.805726,
                                                . 0.23
                                        2.79
                [38.345084, 39.805726,
                                        2.8
                                                , 0.56
                [38.345084, 39.805726,
                                        2.81
                                                , 0.23
                                                            ],
                                                , 0.58
                [38.345084, 39.805726,
                                        2.82
                [38.345084, 39.805726,
                                        2.83
                                                , 0.6
                                                , 0.56
                [38.345084, 39.805726,
                                        2.84
                [38.345084, 39.805726,
                                        2.844
                                                , 0.54
                [38.345084, 39.805726,
                                                , 0.56
                                        2.85
                                                , 0.54
                [38.345084, 39.805726,
                                        2.86
                [38.345084, 39.805726,
                                        2.87
                                                . 0.46
                [38.345084, 39.805726,
                                                , 0.51
                                        2.874
                [38.345084, 39.805726,
                                        2.88
                                                , 0.6
                                        2.89
                                                , 0.36
                [38.345084, 39.805726,
                                        2.97
                [38.120595, 39.765326,
                                                , 0.69
                [38.120595, 39.765326,
                                        2.98
                                                , 0.89
                                                , 0.58
                [38.120595, 39.765326,
                                        2.99
                [38.120595, 39.765326,
                                                , 0.72
                                        3.
                [38.120595, 39.765326,
                                                , 0.72
                                        3.01
                                                , 0.58
                [38.120595, 39.765326,
                                        3.02
                [38.120595, 39.765326,
                                                , 0.57
                                        3.03
                [38.120595, 39.765326,
                                        3.04
                                                , 0.73
                [38.120595, 39.765326,
                                        3.05
                                                , 0.48
                                                            ],
                [38.120595, 39.765326,
                                                , 0.59
                                        3.06
                [38.120595, 39.765326,
                                        3.07
                                                , 0.53
                                                            ],
                [38.120595, 39.765326,
                                        3.08
                                                , 0.63
                [38.120595, 39.765326,
                                                , 0.65
                                                            ],
                                        3.09
                [38.120595, 39.765326, 3.1
                                                , 0.69
                [38.149422, 39.858795, 2.9
                                                , 0.58
                [38.149422, 39.858795,
                                        2.91
                                                , 0.48
                                                            ],
                [38.149422, 39.858795, 2.92
                                                , 0.58
```

```
[38.149422, 39.858795, 2.93
                                , 0.53
[38.149422, 39.858795,
                        2.94
                                , 0.48
                                           ],
[38.149422, 39.858795,
                        2.95
                                , 0.56
                                           ],
[38.149422, 39.858795,
                        2.96
                                , 0.61
[38.149422, 39.858795,
                        2.97
                                . 0.49
[38.149422, 39.858795,
                        2.98
                                . 0.56
                                           ],
[38.149422, 39.858795,
                        2.99
                                , 0.51
[38.149422, 39.858795,
                        3.
                                . 0.66
                                           ],
[38.149422, 39.858795,
                        3.01
                                . 0.49
[38.149422, 39.858795,
                        3.02
                                , 0.45
                                , 0.54
[38.149422, 39.858795,
                        3.03
                                           ],
[38.149422, 39.858795,
                        3.04
                                , 0.57
[38.149422, 39.858795,
                        3.05
                                , 0.55
[38.149422, 39.858795,
                        3.06
                                , 0.56
[38.149422, 39.858795,
                        3.07
                                . 0.49
                                           1,
                        3.08
[38.149422, 39.858795,
                                , 0.49
                                           ],
[38.149422, 39.858795,
                        3.09
                                , 0.62
                        2.82
[37.229614, 41.482876,
                                , 0.82
[37.229614, 41.482876,
                        2.83
                                . 0.78
[37.229614, 41.482876,
                        2.84
                                , 0.68
                                           1,
[37.229614, 41.482876,
                        2.844
                                , 0.62
[37.229614, 41.482876,
                        2.853
                                , 0.67
[37.229614, 41.482876,
                        2.854
                                , 0.72
[37.229614, 41.482876,
                        2.856
                                , 0.66
[37.229614, 41.482876,
                        2.86
                                , 0.76
                        2.866
[37.229614, 41.482876,
                                , 0.76
[37.229614, 41.482876,
                        2.87
                                , 0.81
                                , 0.86
[37.229614, 41.482876,
                        2.874
[37.229614, 41.482876,
                        2.878
                                . 0.91
[37.229614, 41.482876,
                        2.88
                                , 0.84
                       2.886
[37.229614, 41.482876,
                                , 0.75
                        2.89
                                , 0.9
[37.229614, 41.482876,
[37.229614, 41.482876,
                        2.9
                                , 0.91
[37.229614, 41.482876,
                        2.902
                                , 0.88
                                           ],
                        2.91
[37.229614, 41.482876,
                                , 0.77
[38.086555, 39.790732,
                        2.49
                                , 0.69
[38.086555, 39.790732,
                        2.52
                                , 0.33
[38.086555, 39.790732,
                                , 0.27
                                           ],
                        2.54
[38.086555, 39.790732, 2.57
                                , 0.81
                                           ],
[38.086555, 39.790732, 2.6
                                , 0.83
[38.086555, 39.790732, 2.62
                                , 0.34
                                           ],
[38.086555, 39.790732, 2.64
                                , 0.73
```

```
[38.137136, 39.803005, 3.216
                               . 0.77
[38.137136, 39.803005,
                       3.22
                               , 0.73
                                          ],
[38.137136, 39.803005,
                       3.232
                               , 0.56
                                          ],
[38.137136, 39.803005,
                       3.246
                               , 0.74
[38.137136, 39.803005,
                       3.26
                               . 0.73
[38.137136, 39.803005,
                       3.284
                               , 0.27
[38.137136, 39.803005,
                       3.308
                               , 0.59
[38.137136, 39.803005,
                       3.328
                               , 0.31
                                          ],
[38.137136, 39.803005,
                       3.334
                               . 0.26
[38.137136, 39.803005,
                       3.34
                               , 0.24
[38.137136, 39.803005,
                       3.36
                               , 0.33
                                          1,
[38.116071, 39.720608,
                       3.23
                               , 0.72
[38.116071, 39.720608,
                       3.24
                               , 0.38
[38.116071, 39.720608,
                       3.246
                               , 0.61
[38.116071, 39.720608,
                       3.252
                               , 0.55
                                          1,
[38.116071, 39.720608,
                       3.262
                               , 0.52
                                          ],
[38.116071, 39.720608,
                       3.274
                               , 0.52
[38.116071, 39.720608,
                       3.284
                               , 0.78
[38.116071, 39.720608,
                       3.29
                               . 0.34
[38.116071, 39.720608,
                       3.306
                               , 0.61
                                          ٦,
[38.116071, 39.720608,
                       3.32
                               , 0.33
[37.687216, 40.852749,
                       2.3711 , 0.6
[37.687216, 40.852749,
                       2.3721 ,
                                  0.52
[37.687216, 40.852749,
                       2.3727 , 0.59
[37.687216, 40.852749,
                       2.3794 , 0.65
[37.687216, 40.852749, 2.3803
                              , 0.59
[37.687216, 40.852749, 2.3813 , 0.8
[37.687216, 40.852749,
                       2.3825 .
                                  0.5
[37.687216, 40.852749,
                       2.3835 , 0.63
[37.687216, 40.852749,
                       2.3844
                              , 0.41
[37.687216, 40.852749, 2.3853 , 0.41
[37.687216, 40.852749,
                       2.3864 , 0.88
[37.687216, 40.852749,
                       2.3879 , 0.9
[37.687216, 40.852749,
                       2.3882
                              . 0.67
                                          ],
[37.687216, 40.852749,
                       2.3905
                              , 0.97
[37.687216, 40.852749, 2.3909 , 0.93
[37.687216, 40.852749, 2.3917 , 0.72
[37.687216, 40.852749, 2.3931 , 0.53
[37.687216, 40.852749, 2.3959, 0.38]
                                          ],
[37.687216, 40.852749, 2.3972 , 0.41
[37.687216, 40.852749, 2.4125,
                                  0.39
[37.687216, 40.852749, 2.4135 , 0.39]
```

```
[37.687216, 40.852749, 2.4155 , 0.49]
[37.687216, 40.852749, 2.416
                               , 0.67
                                           ],
[37.687216, 40.852749, 2.4173 , 0.44
                                           ],
[37.687216, 40.852749,
                       2.4185
                               . 0.47
[37.687216, 40.852749,
                       2.4193
                                  0.43
[37.687216, 40.852749, 2.4207
                               , 0.42
                                           ٦,
[37.687216, 40.852749, 2.4219
                               , 0.51
[37.687216, 40.852749, 2.4232 , 0.37
[37.687216, 40.852749,
                       2.424
                                . 0.36
[37.687216, 40.852749,
                       2.4248
                               . 0.46
[37.687216, 40.852749, 2.4262
                               , 0.41
                                           1,
                               , 0.34
[37.687216, 40.852749,
                       2.4269
[37.687216, 40.852749,
                       2.428
                                , 0.41
[37.687216, 40.852749,
                                , 0.43
                        2.429
[37.687216, 40.852749,
                        2.43
                                . 0.42
                                           1,
[38.003842, 40.671948,
                       3.675
                                , 0.43
                                           ],
[38.003842, 40.671948,
                        3.68
                                , 0.62
[38.003842, 40.671948,
                        3.685
                                , 0.23
[38.003842, 40.671948,
                       3.69
                                . 0.63
[38.003842, 40.671948,
                        3.695
                                , 0.36
                                           ٦,
[38.003842, 40.671948,
                       3.7
                                , 0.49
[38.003842, 40.671948,
                        3.705
                                , 0.57
[38.003842, 40.671948,
                        3.71
                                , 0.78
[38.003842, 40.671948,
                                , 0.75
                        3.715
[38.003842, 40.671948,
                        3.72
                                . 0.59
                                           ],
                       3.725
[38.003842, 40.671948,
                                , 0.56
[38.003842, 40.671948,
                        3.73
                                , 0.53
[38.003842, 40.671948,
                        3.735
                                , 0.57
[37.892258, 40.818528,
                        2.35
                                , 0.61
                        2.355
[37.892258, 40.818528,
                                , 0.6
[37.892258, 40.818528,
                       2.36
                                , 0.58
[37.892258, 40.818528,
                        2.365
                                , 0.57
                       2.37
[37.892258, 40.818528,
                                , 0.75
[37.892258, 40.818528,
                       2.375
                                , 0.67
                                           ],
[37.892258, 40.818528,
                        2.38
                                , 0.97
[37.892258, 40.818528,
                       2.385
                                , 1.
                                           ],
[37.892258, 40.818528,
                        2.39
                                , 0.65
[37.892258, 40.818528,
                                , 0.6
                       2.395
                                           ],
[37.892258, 40.818528,
                       2.4
                                , 0.55
                                           ],
[37.892258, 40.818528,
                       2.405
                                , 0.42
[37.892258, 40.818528,
                       2.41
                                , 0.33
                                           ],
[37.892258, 40.818528, 2.415]
                                , 0.61
                                           ],
```

```
[37.892258, 40.818528, 2.42
                                      , 0.62
       [37.892258, 40.818528, 2.425 , 0.31
                                                ],
       [37.892258, 40.818528, 2.43
                                     , 0.53
                                                ],
       [37.892258, 40.818528, 2.435 , 0.41
       [37.892258, 40.818528, 2.44 , 0.46
                                                ],
data = np.array(data)
longitude = data[:, 1]
latitude = data[:, 0]
depth = data[:, 2]
bi = data[:, 3]
fig = plt.figure(figsize=(25, 10))
ax = fig.add subplot(111, projection='3d')
scatter = ax.scatter(longitude, latitude, depth, c=bi, cmap='jet')
cbar = plt.colorbar(scatter)
cbar.set label('BI')
# Eksen etiketlerini ve başlığı ekle
ax.set xlabel('Longitude')
ax.set ylabel('Latitude')
ax.set_zlabel('Depth (km)')
plt.title('3D Scatter Plot with Color Bar')
plt.show()
```

In []:

```
In [ ]: import matplotlib.pyplot as plt
        import numpy as np
        # Verileri olustur
        data = np.array(data)
        longitude = data[:, 1]
        latitude = data[:, 0]
        depth = data[:, 2]
        bi = data[:, 3]
        # 3D scatter plot ve color bar plot'u oluştur
        fig = plt.figure(figsize=(25, 10))
        ax = fig.add subplot(111, projection='3d')
        scatter = ax.scatter(longitude, latitude, depth, c=bi, cmap='jet')
        # Renk barını ekle
        cbar = plt.colorbar(scatter)
        cbar.set label('BI')
        # Eksen etiketlerini ve başlığı ekle
        ax.set xlabel('Longitude')
        ax.set ylabel('Latitude')
        ax.set zlabel('Depth (km)')
        plt.title('3D Scatter Plot with Color Bar')
        # Grafiği göster
        plt.show()
```

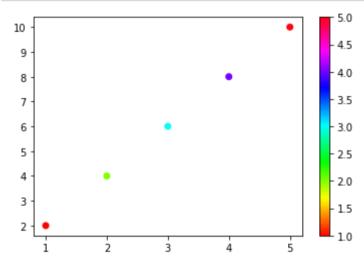
```
In [108]: import matplotlib.pyplot as plt

# 'hsv' renk haritasını elde etme
my_cmap = plt.get_cmap('hsv')

# Renk haritasını bir grafiğe uygulama
x = [1, 2, 3, 4, 5]
y = [2, 4, 6, 8, 10]

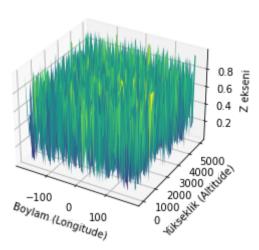
plt.scatter(x, y, c=x, cmap=my_cmap) # c=y ifadesiyle renklendirme yapılıyor

plt.colorbar() # Renk skalasını gösterme
plt.show()
```



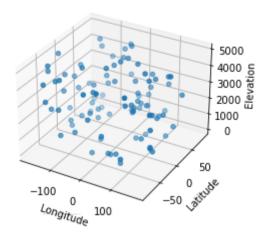
```
In [142]: import numpy as np
          import matplotlib.pyplot as plt
          from mpl toolkits.mplot3d import Axes3D
          # Veri olusturma
          longitude = np.linspace(-180, 180, 100) # Örnek boylam değerleri
          altitude = np.linspace(0, 5000, 100) # Örnek yükseklik değerleri
          # Boyle bir veri örneği olsun:
          # Longitude = [-180, -176.36, ..., 176.36, 180]
          # altitude = [0, 50, ..., 4950, 5000]
          # Boyle bir mesharid elde edelim:
          longitude mesh, altitude mesh = np.meshgrid(longitude, altitude)
          # Örnek bir yükseklik fonksiyonu (burada rastgele bir değer kullanıldı)
          z = np.random.random((100, 100))
          # 3D grafik figürünü oluşturma
          fig = plt.figure()
          ax = fig.add subplot(111, projection='3d')
          # Verivi 3D vüzev grafiği olarak cizme
          ax.plot surface(longitude mesh, altitude mesh, z, cmap='viridis')
          # Eksen etiketlerini ayarlama
          ax.set xlabel('Boylam (Longitude)')
          ax.set ylabel('Yükseklik (Altitude)')
          ax.set zlabel('Z ekseni')
          # Baslığı ayarlama
          plt.title('3D Yüzey Grafiği')
          # Grafiği gösterme
          plt.show()
```

3D Yüzey Grafiği



```
In [143]: import numpy as np
          import matplotlib.pyplot as plt
          from mpl_toolkits.mplot3d import Axes3D
          # Veri olusturma
          np.random.seed(0)
          n points = 100
          longitude = np.random.uniform(low=-180, high=180, size=n points)
          latitude = np.random.uniform(low=-90, high=90, size=n points)
          elevation = np.random.uniform(low=0, high=5000, size=n points)
          # 3D grafik figürünü oluşturma
          fig = plt.figure()
          ax = fig.add subplot(111, projection='3d')
          # Veriyi 3D nokta grafiği olarak çizme
          ax.scatter(longitude, latitude, elevation)
          # Eksen etiketlerini ayarlama
          ax.set xlabel('Longitude')
          ax.set ylabel('Latitude')
          ax.set zlabel('Elevation')
          # Başlığı ayarlama
          plt.title('3D Nokta Grafiği')
          # Grafiği gösterme
          plt.show()
```

3D Nokta Grafiği



In []: