```
import numpy as np
       import pandas as pd

√ 3.2s

[2]
       array1 = np.arange(1, 11).reshape(2, 5)
       print("numray:\n", array1)
[3]

√ 0.2s

    numray:
     [[ 1 2 3 4 5]
     [6 7 8 9 10]]
       array2 = np.arange(1, 21)
       elements = array2[5:16]
       print("numray_2:\n", elements)
[4]
    ✓ 0.0s
    numray_2:
     [ 6 7 8 9 10 11 12 13 14 15 16]
```

```
+ Code
                                                                                   + Markdown
        data = {
             'name': ['Aneesha', 'Boby', 'Aslam', 'David', 'Evan', 'Sahil', 'Godwin', 'Hafsa', 'Ihsan', 'Jack'], 'age': [25, 30, 22, 40, 29, 35, 27, 33, 26, 31],
             df = pd.DataFrame(data)
        print("\nDataset:\n", df)
[6]

√ 0.4s

    Dataset:
            name age gender
                                                                                                                    series = pd.Series
series['pears'] =
print("\nfruit_lis
    0 Aneesha
                   25
           Boby
                   30
                                                                                                                   √ 0.2s
          Aslam
                   22
                                                                                                                  fruit_list:
          David
                   40
                                                                                                                  apples
bananas
           Evan
                   29
                                                                                                                  oranges
          Sahil
                                                                                                                  pears 4
dtype: int64
         Godwin
                   27
    6
          Hafsa
          Ihsan
                   26
                                                                                                                   Snipping Too
    9
           Jack
                   31
```

```
print("\nDataset:\n", df)
✓ 0.0s
Dataset:
       name age gender occupation
  Aneesha 25 F Programmer
0
                   M
M
   Aslam 22 m

Aslam 22 m

David 40 M Programmer

Evan 29 F Manager

Sahil 35 M Analyst

Godwin 27 F Programmer

Wafsa 33 F Manager

M Analyst
      Boby 30
                           Manager
2
                  M
M P
8
                     M Programmer
9
      Jack
```

```
df_filtered = df[df['age'] >= 30]
       print("\nage>=30:\n", df_filtered)
[9]

√ 0.0s

    age>=30:
              age gender
                          occupation
         name
                            Manager
    1 Boby
               30
                      М
    3 David
                      M Programmer
              40
    5 Sahil
                            Analyst
               35
                      М
    7 Hafsa
                      F
                            Manager
               33
       Jack
                         Programmer
    9
               31
                      М
```