```
In [10]: import numpy as np
         print(np.random.rand())
         print(np.random.randn())
        0.4806292114324241
        -0.44917031704756727
In [20]: import numpy as np
         arr = np.array([1,2,3,4,5,6])
         indices = np.where(arr > 3)
         print(indices) # Output: (array([3]),) --> Index of elements > 3
        (array([3, 4, 5]),)
In [21]: import numpy as np
         arr = np.array([[1,2,3], [4,5,6],[0,8,9]])
         transposed arr = np.transpose(arr)
         print(transposed_arr)
        [[1 4 0]
         [2 5 8]
         [3 6 9]]
In [22]: import numpy as np
         arr = np.array([1,2,3,4,5,6])
         print(np.mean(arr))
        3.5
In [23]: import numpy as np
         arr = np.array([1,3,2,5,6,8,4])
         print(np.median(arr))
        4.0
In [26]: import numpy as np
         arr = np.array([10,20,15,3,50,85,32,45])
         print(np.argmax(arr)) # Output: 3 (Index of 40)
         print(np.argmin(arr)) # Output: 2 (Index of 5)
        5
        3
In [27]: import numpy as np
         arr = np.array([10,20,3,12,32])
         index = np.searchsorted(arr, 25)
         print(index)
In [28]: import numpy as np
         arr = np.array([10, 20, 30, 40, 50, 60])
         condition = arr > 35
         result = np.extract(condition, arr)
         print(result)
```

```
[40 50 60]
```

```
In [34]: import numpy as np
         arr = np.array([1,2,3,4,5,9,8,6])
         split_arr = np.split(arr, 4)
         print(split arr)
        [array([1, 2]), array([3, 4]), array([5, 9]), array([8, 6])]
In [35]: import numpy as np
         arr = np.array([5,3,2,8,1,7])
         sorted arr = np.sort(arr)
         print(sorted arr)
        [1 2 3 5 7 8]
In [36]: import numpy as np
         arr1 = np.array([1, 2])
         arr2 = np.array([3, 4])
         result = np.concatenate((arr1, arr2))
         print(result)
        [1 2 3 4]
In [37]: import numpy as np
         arr1 = np.array([1, 2])
         arr2 = np.array([3, 4])
         result = np.vstack((arr1, arr2))
         print(result)
        [[1 2]
         [3 4]]
In [38]: import numpy as np
         arr1 = np.array([1, 2])
         arr2 = np.array([3, 4])
         result = np.hstack((arr1, arr2))
         print(result)
        [1 2 3 4]
In [39]: import numpy as np
         arr = np.array([1, 2, 3, 4, 5])
         condition = arr > 2
         filtered_arr = arr[condition]
         print(filtered arr)
```

[3 4 5]

In []: