```
import numpy as np
arr=np.array([[1,2,3],[4,5,6],[7,8,9]])
subarray=arr[0:2,1:3]

col1=arr[:,0]
row1=arr[0,:]
reversed_arr=arr[::-1]
print(subarray,col1,row1,reversed_arr)
```

```
[[2 3]
 [5 6]] [1 4 7] [1 2 3] [[7 8 9]
 [4 5 6]
 [1 2 3]]
```

Double-click (or enter) to edit

```
import numpy as np
arr=np.array([[1,2,3],[4,5,6],[7,8,9]])
print(arr[:,2])
```

```
[3 6 9]
```

```
import numpy as np
arr = np.array([10, 20, 30, 40, 50])
print(arr[0])
```

```
10
```

```
print(arr[4])
```

```
50
```

```
print(arr[-1])
```

```
50
```

```
print(arr[1:4])
```

```
[20 30 40]
```

```
print(arr[arr>25])
```

```
[30 40 50]
```

```
print(arr[[1,3]])
```

```
[20 40]
```

```
import numpy as np
arr=np.array([[1,2,3],[4,5,6],[7,8,9]])
print(arr[0,0])
print(arr[1,2])
```

```
1
6
```

```
import numpy as np
arr1=np.array([[1,2],[3,4]])
arr2=np.array([[5,6],[7,8]])
r=np.hstack((arr1,arr2))
print(r)
```

```
[[1 2 5 6]
 [3 4 7 8]]
```

```
r=np.vstack((arr1,arr2))
print(r)
```

```
[[1 2]
 [3 4]
 [5 6]
 [7 8]]
```

```
import numpy as np
arr=np.array([1,2,3,4,5,6])
r=np.array_split(arr,3)
print(r)
```

```
[array([1, 2]), array([3, 4]), array([5, 6])]
```

```
arr=np.array([1,2,3,4,5,])
r=np.array_split(arr,3)
print(r)
```

```
[array([1, 2]), array([3, 4]), array([5])]
```

```
arr=np.array([1,2,3,4,5,6])
r=np.split(arr,2)
print(r)
```

```
[array([1, 2, 3]), array([4, 5, 6])]
```

```
arr=np.array([[1,2,3],[4,5,6]])
r=np.array_split(arr,3)
print(r)
```

```
[array([[1, 2, 3]]), array([[4, 5, 6]]), array([], shape=(0, 3), dtype=int64)]
```

```
arr=np.array([[[1,2],[3,4]],[[5,6],[7,8]]])
r=np.split(arr,2)
print(r)
```

```
[array([[[1, 2],
         [3, 4]]]), array([[[5, 6],
         [7, 8]]])]
```