In [1]:
```
## Numpy
```

In [2]:
```
import numpy as np
```

In [3]:
```
array = np.random.randint(1, 100, 9)
```

In [4]:
```
array
```

Out[4]:
```
array([15, 50, 74, 57, 68, 39, 66, 16, 83])
```

In [5]:
```
# How to extract 74
array[2]
```

Out[5]:
```
74
```

In [7]:
```
# How to extract the numbers from 74 to 39
array[2:6]
```

Out[7]:
```
array([74, 57, 68, 39])
```

In [8]:
```
new_array = array.reshape(3,3)
```

In [9]:
```
new_array
```

Out[9]:
```
array([[15, 50, 74],
       [57, 68, 39],
       [66, 16, 83]])
```

In [10]:
```
new_array.ndim
```

Out[10]:
```
2
```

In [12]:
```
##  How to extract 16,83

new_array[2, 1:3]
```

Out[12]:
```
array([16, 83])
```

In [14]:
```
### How to extract 68,39

new_array[1, 1:3]
```

Out[14]:
```
array([68, 39])
```

In [15]:
```
## How to extract numbers [15,74]
                         ##[66,83]
```

In [17]:
```
new_array[[0,0,2,2],[0,2,0,2]].reshape(2,2)
```

Out[17]:
```
array([[15, 74],
       [66, 83]])
```

In [20]:
```
### How to extract numbers [15,50,74]
                          # [57,68, 39]
```

In [21]:
```
new_array[0:2,0:3]
```

Out[21]:
```
array([[15, 50, 74],
       [57, 68, 39]])
```

In [ ]: