```
#Differences between Flatten() and Ravel()
#used to convert a ndarray to a 1D array

#create  2D array

import numpy as np
a = np.array ([[1,2,3],[4,5,6]])
a     #original 2D array
```

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

```
[10] #use flatten() to convert 2d array into 1D array
     b = a.flatten() #converts 2D arrayn into 1D array
     b  #gives 1D array
```

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

```
#Change any value in the array
b [3] = 25
b
```

```
array([ 1,  2,  3, 25,  5,  6])
```

```
[13] #Now print original array after changing value
     a  # there is no any change in original array when we chnage values on an array where we have used flatten()
```

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

```
[14] #use ravel() to convert 2d array into 1D array
     c=a.ravel()    #converts 2D arrayn into 1D array
     c   #gives 1D array
```

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

```
[16] #Change any value in the array
     c [3] = 25
     c
```

```
array([ 1,  2,  3, 25,  5,  6])
```

```
[17] #Now print original array after changing value
     a  # there is a change in original array when we chnage values on an array where we have used ravel()
```

```
array([[ 1,  2,  3],
       [25,  5,  6]])
```