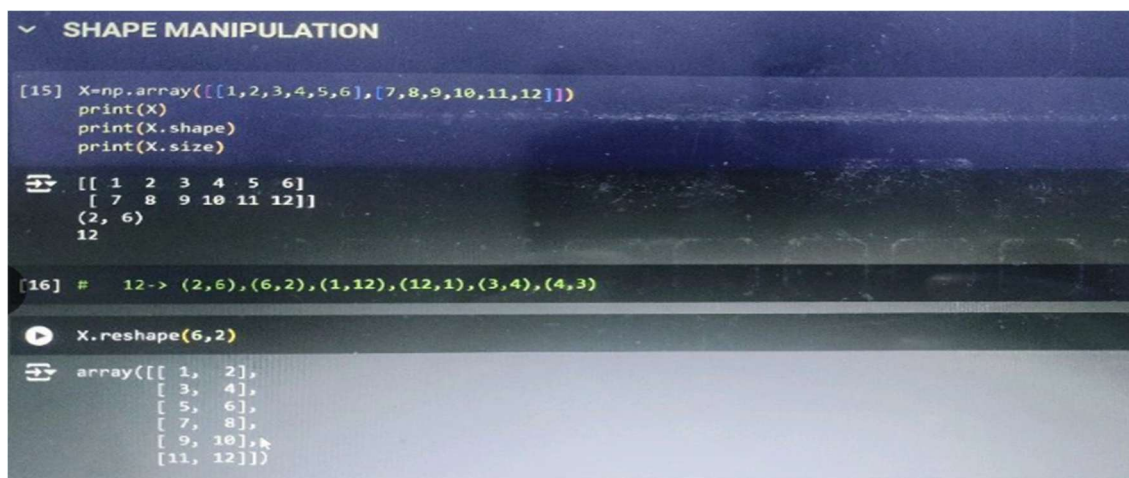# Training Day – 24

Topic:- NumPy Manipulation

- Performed reshaping, slicing, and broadcasting operations.

- Example: Reshaped a 1D array into a 2D array and performed element-wise

multiplication.

Day-2

•Today I practiced some example based on slicing in multi-dimensional array.

•Some new topics also covered in today's session as

like -

*Shape Manipulation.

*Conditions In Array.

•And also getting a short knowledge of "Broadcasting" using numpy's library. NumPy

arrays can be reshaped, sliced, and indexed to suit various needs.

EXAMPLE

```
array = np.arange(10)
reshaped = array.reshape(2, 5)
sliced = reshaped[:, 1:4]
broadcasted = reshaped + 10
print("Original Array:\n", array)
print("Reshaped Array:\n", reshaped)
print("Sliced Array:\n", sliced)
print("Broadcasted Array:\n", broadcasted)
```