

1. write a NumPy program to create an array of 10 zeros, 10 ones, and 10 fives.

```
import numpy as np
zeros_array = np.zeros(10)
ones_array = np.ones(10)
fives_array = np.full(10, 5)
print("Array of 10 zeros:")
print(zeros_array)
print("\nArray of 10 ones:")
print(ones_array)
print("\nArray of 10 fives:")
print(fives_array)
```

2. Write a Numpy program to create a 3*3 matrix with values ranging from 2 to 10.

```
import numpy as np
matrix = np.arange(2, 11).reshape(3, 3)
print("3x3 Matrix with values from 2 to 10:")
print(matrix)
```

3. write a numpy program to create an array with values ranging from 12 to 38.

```
import numpy as np
array_range = np.arange(12, 39)
print("Array with values ranging from 12 to 38:")
print(array_range)
```

4. write a numpy program to convert a list and tuple into arrays.

input: my_list=[1,2,3,4,5,6,7,8]

input: my_tuple=([8,4,6],[1,2,3])

```
import numpy as np
put list and tuple
my_list = [1, 2, 3, 4, 5, 6, 7, 8]
my_tuple = ([8, 4, 6], [1, 2, 3])
list_array = np.array(my_list)
tuple_array = np.array(my_tuple)
print("List converted to array:")
print(list_array)
print("\nTuple converted to array:")
print(tuple_array)
```