In [2]:

```
import numpy as np
my_array = np.array([10,12,14,16,20,25])
print(my_array)
print(my_array.dtype)
print(my_array.dtype.itemsize)
```

```
[10 12 14 16 20 25]
int32
4
```

In [3]:

```
import numpy as np
my_array = np.array(["Red", "Green", "Orange"])
print(my_array)
print(my_array.dtype)
print(my_array.dtype.itemsize)
```

```
['Red' 'Green' 'Orange']
<U6
24
```

In [4]:

```
import numpy as np
my_array = np.array(["1990-10-04", "1989-05-06", "1990-11-04"])
print(my_array)
print(my_array.dtype)
print(my_array.dtype.itemsize)
```

```
['1990-10-04' '1989-05-06' '1990-11-04']
<U10
40
```

In [5]:

```
my_array3 = my_array.astype("M")
print(my_array3.dtype)
print(my_array3.dtype.itemsize)
```

```
datetime64[D]
8
```

In [6]:

```
import numpy as np
my_array = np.array(["1990-10-04", "1989-05-06", "1990-11-04"], dtype = "M")
print(my_array)
print(my_array.dtype)
print(my_array.dtype.itemsize)
```

```
['1990-10-04' '1989-05-06' '1990-11-04']
datetime64[D]
8
```

In [7]:

```
import numpy as np
nums_list = [10,12,14,16,20]
nums_array = np.array(nums_list)
type(nums_array)
```

Out[7]:

```
numpy.ndarray
```

In [8]:

```
row1 = [10,12,13]
row2 = [45,32,16]
row3 = [45,32,16]
nums_2d = np.array([row1, row2, row3])
nums_2d.shape
```

Out[8]:

```
(3, 3)
```

In [9]:

```
nums_arr = np.arange(5,11)
print(nums_arr)
```

```
[ 5  6  7  8  9 10]
```

In [10]:

```
nums_arr = np.arange(5,12,2)
print(nums_arr)
```

```
[ 5  7  9 11]
```

In [11]:

```
ones_array = np.ones(6)
print(ones_array)
```

```
[1. 1. 1. 1. 1. 1.]
```