

## Get to Know a numpy Array

cast the following list to a numpy array:

In [ ]:

```
import numpy as np
a=[1,2,3,4,5]
```

1) type using the function type

In [ ]:

2) the shape of the array

In [ ]:

3) the type of data in the array

In [ ]:

4) find the mean of the array

In [ ]:

## Creating and Plotting Functions

1) create the following functions using the numpy array  $x$

$$y = \sin(x) + 2$$

In [ ]:

```
x=np.linspace(0,2*np.pi,100)
```

2) plot the function

In [ ]:

```
import matplotlib.pyplot as plt  
%matplotlib inline
```

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