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
```