

CREATION OF ARRAY USING NUMPY

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In [2]: #Name : Shreya Sharma  
#Roll no. : 46  
#Sectin : 3B  
#Date : 03/08/2024
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In [4]: #Aim : creation of array using numpy
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In [24]: import numpy as np  
from matplotlib import pyplot as plt
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In [25]: x=np.arange(1,11)
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```
In [28]: x
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Out[28]: array([ 1,  2,  3,  4,  5,  6,  7,  8,  9, 10])
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In [30]: y=2*x
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In [32]: y
```

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Out[32]: array([ 2,  4,  6,  8, 10, 12, 14, 16, 18, 20])
```

```
In [34]: arr = np.array([[1, 2, 3, 4], [5, 6, 7, 8], [9, 10, 11, 12]])
```

```
In [36]: arr
```

```
Out[36]: array([[ 1,  2,  3,  4],  
               [ 5,  6,  7,  8],  
               [ 9, 10, 11, 12]])
```

```
In [38]: arra= np.array([[[1, 2, 3], [4, 5, 6], [7, 8, 9]],  
                        [[10, 11, 12], [13, 14, 15], [16, 17, 18]],  
                        [[19, 20, 21], [22, 23, 24], [25, 26, 27]]])
```

```
In [40]: arra
```

```
Out[40]: array([[[ 1,  2,  3],  
                [ 4,  5,  6],  
                [ 7,  8,  9]],  
               [[10, 11, 12],  
                [13, 14, 15],  
                [16, 17, 18]],  
               [[19, 20, 21],  
                [22, 23, 24],  
                [25, 26, 27]]])
```

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In [ ]:
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