



SMART INTERNZ

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING IN DATA SCIENCE

Morning Batch 10:00 – 12:00

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WEEKEND ASSIGNMENT 1

Python Code

```
import numpy as np
```

```
arr = [0,0,0,0,0,0,0,0,0,0]
```

```
arr_1 = [1,1,1,1,1,1,1,1,1,1]
```

```
arr_2 = [5,5,5,5,5,5,5,5,5,5]
```

```
Arr =
```

```
[10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,  
38,39,40,41,42,43,44,45,46,47,48,49,50]
```

```
Arr_1 = [10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50]
```

```
Arr_2 = [[0,1,2], [3,4,5], [6,7,8]]
```

```
Arr_3 = [[1,0,0], [0,1,0], [0,0,1]]
```

```
Mat = np.arange(1,26).reshape(5,5)
```

```
mat_1 = np.arange(11,26).reshape(3,5)
```

```
print(Mat.ndim)
```

```
print(Mat.shape)
```

```
print(np.sum(Mat))
```

```
print(np.std(Mat))
```

```
print(sum(Mat))
```

OUTPUT

OnlineGDB beta
online compiler and debugger for c/c++
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main.py

```
1  ...
2
3      Online Python Compiler.
4      Code, Compile, Run and Debug python program online.
5      Write your code in this editor and press "Run" button to execute it.
6      ...
7
8      import numpy as np
9
10
11     arr = [0,0,0,0,0,0,0,0,0,0]
12     arr_1 = [1,1,1,1,1,1,1,1,1,1]
13     arr_2 = [5,5,5,5,5,5,5,5,5,5]
14     Arr = [10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50]
15     Arr_1 = [10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50]
16     Arr_2 = [[0,1,2], [3,4,5], [6,7,8]]
17     Arr_3 = [[1,0,0], [0,1,0], [0,0,1]]
18
19     Mat = np.arange(1,26).reshape(5,5)
20     mat_1 = np.arange(11,26).reshape(3,5)
21     print(Mat.ndim)
22     print(Mat.shape)
23
24     print(np.sum(Mat))
25     print(np.std(Mat))
26     print(sum(Mat))
```

Input

```
2
(5, 5)
325
7.211102550927978
[55 60 65 70 75]

...Program finished with exit code 0
Press ENTER to exit console.
```

Activate Windows
Go to Settings to activate Windows.