Certificate Course in Machine Learning using Python [6 Weeks]

Exercises and Practice Problems in Python

Exercise and Practice Problems (Numpy)

Q. Create two array of size (3, 3) and print their sum and multiplication.

```
import numpy as np
a=np.array([[10,20,30],[40,50,60],[70,80,90]])
b=np.array([[15,25,35],[45,55,65],[75,85,95]])

print("array a is \n",a)
print("array b is \n",b)
print("Sum of the array is=\n",a+b)
print("Multiplication of the array is=\n",a*b)
```

Q. Create an array of size (3, 4) and reshape to (4, 3).

```
import numpy as np
a=np.array([[1,2,3,10],[4,5,6,20],[7,8,9,90]])
print("the original array is \n",a)
print(a.shape)
a=a.reshape(4,3)
print("the reshaped array is\n",a)
```

Q. Create an array for a given range of elements between 2 to 40 step by 3.

```
a=np.arange(2,40,3)
print(a)
```

Q. Create an evenly spaced numpy array of 10 values between 5 to 35.

```
import numpy as np
a=np.arange(5,35,3)
print(a)
```

Q. Create an array of size 10 and calculate square root and standard deviation.

```
import numpy as np
a=np.array([1,2,3,4,5,6,7,8,9,10])
print(a.size)
x=np.sqrt(a)
y=np.std(a)

print("the square root is:",x)
print("the standard deviation is:",y)
```

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Python Demonstration Code: Day 9 ►

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http://nielit.gov.in/gorakhpur/

abhinav@nielit.gov.in or ajay.verma@nielit.gov.in