Python-Assignment

February 23, 2022

0.1 Assignment

Dr. Bahar Ali

Assistant Professor (CS), National University Of Computer and Emerging Sciences, Peshawar.

```
[12]: ## Printing N-Dimensional array
```

```
[13]: ## Complete the 'print_array' method
      ## The method will print N-Dimensional array.
      ## The expected outputs of the method are given in below cells

      def print_array():
          pass
```

```
[9]: import numpy as np
```

```
[3]: a = [1,2,3]
     #print(a.shape)
     print_array(a)
```

```
(0) = 1
(1) = 2
(2) = 3
```

```
[4]: a = np.array([[1,2,3],[4,5,6]])
     #print(a.shape)
     print_array(a)
```

```
(0,0) = 1
(0,1) = 2
(0,2) = 3
(1,0) = 4
(1,1) = 5
(1,2) = 6
```

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

```
print(a.shape)
print_array(a)
```

```
(2, 2, 3)
(0,0,0) = 1
(0,0,1) = 2
(0,0,2) = 3
(0,1,0) = 4
(0,1,1) = 5
(0,1,2) = 6
(1,0,0) = 7
(1,0,1) = 8
(1,0,2) = 9
(1,1,0) = 10
(1,1,1) = 11
(1,1,2) = 12
```

[6]:
```
a = [[2,3,[47,56,67]],[4,5,6,7,[3333,[200,[66]]]]]
print_array(a)
```

```
(0,0) = 2
(0,1) = 3
(0,2,0) = 47
(0,2,1) = 56
(0,2,2) = 67
(1,0) = 4
(1,1) = 5
(1,2) = 6
(1,3) = 7
(1,4,0) = 3333
(1,4,1,0) = 200
(1,4,1,1,0) = 66
```

[7]: