**Python for Data Science NPTEL Week 2 Assignment Answers**

Are you looking for the Python for Data Science NPTEL Week 2 Assignment Answers 2024? You’ve come to the right place! This guide offers detailed solutions to the Week 2 assignment questions, helping you solidify your understanding of Python programming and its applications in data science.

**Course Link:**[**Click Here**](https://onlinecourses.nptel.ac.in/noc24_cs68/)

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**Python for Data Science Nptel Week 2 Assignment Answers**

**Python for Data Science Nptel Week 2 Assignment Answers (Jan-Aprl 2025)**

**1) Which of the following objects does not support indexing?**  
Options:  
[a] tuple  
[b] list  
[c] dictionary  
[d] set

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**2) How can you concatenate the strings “data” and “science” with a hyphen (-) between them?**  
Options:  
[a] "data".join("science")  
[b] ".join(["data", "science"])  
[c] "data" + "science"  
[d] None of the above

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**3) What will be the output of the following code snippet?**

import numpy as np

c = np.dot(a, b)

print(c)

Options:  
[a] [5, 12]  
[b] [21, 32]  
[c] [[19, 22], [43, 50]]  
[d] [35, 56]

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**4) What will be the output of the following code snippet?**

import numpy as np

a = np.arange(10)

b = 10

print(a)

Options:  
[a] [1, 10, 9]  
[b] [10, 8, 9]  
[c] [0, 10, 9]  
[d] [10, 2, 3, 4, 5, 6, 7, 8, 9]

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**5) What is the output of the following code?**

for i in range(len(s)):

print(i)

Options:  
[a] Will throw an error: Set objects are not iterable.  
[b] Will print the indices of the set.  
[c] Will print the elements of the set.  
[d] Will run indefinitely.

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**6) What will be the output of the following code snippet?**

A = {1, 2, 3}

B = {3, 4, 5}

print(A | B)

Options:  
[a] {27.5}  
[b] {1, 2, 3, 4, 5}  
[c] {1, 2, 3}  
[d] {4, 5}

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**7) Given the tuples**tl = (1, 2, "tuple", 4)**and**t2 = (5, 6, 7)**, which of the following will not give any error after execution?**  
Options:  
[a] tl.append(5)  
[b] list(t2)  
[c] tl + t2  
[d] (tl, t2)

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**8) Given the dictionary**d = {1: "Python", 2: [1, 2]}**, which of the following will not give an error after execution?**  
Options:  
[a] d[2].append(4)  
[b] d[1] = 1  
[c] d["one"] = 1  
[d] None of the above

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**9) Which of the following data types is immutable?**  
Options:  
[a] list  
[b] set  
[c] tuple  
[d] dictionary

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**10) Given the dictionary**student = {"name": "Jane", "age": 26, "courses": ["Math", "Science"]}**, which of the following will return the phone number?**  
Options:  
[a] student['phone']  
[b] student['phone'] = '123-456'  
[c] student['phone']  
[d] None of the above

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**11) What is the output of the following code?**

name = "Mahesh"

for i in name:

t.append(i.capitalize())

print(t)

Options:  
[a] ["M", "A", "H", "E", "S", "H"]  
[b] ["Mahesh"]  
[c] ["Mahesh".capitalize()]  
[d] None of the above

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**12) What will be the output of the following code snippet?**

import numpy as np

a = np.array([range(i, i+4) for i in range(3)])

print(a)

Options:  
[a] [[0, 1, 2, 3], [1, 2, 3, 4], [2, 3, 4, 5]]  
[b] [[3, 4, 5, 6], [5, 6, 7, 8]]  
[c] [[0, 1, 2, 3], [1, 2, 3, 4], [2, 3, 4, 5]]  
[d] None of the above

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**Python for Data Science Nptel Week 2 Assignment Answers (JULY-DEC 2024)**

**Q1. Which of the following object does not support indexing?**  
tuple  
list  
dictionary  
set

**Answer: set**

**Q2. Given a NumPy array, arr = np.array([[[1, 2, 3], [4, 5, 6], [7, 8, 9]]]), what is the output of the command, print(arr[0][1])?**

[[1 2 3]  
[4 5 6]  
[7 8 9]]  
[1 2 3]  
[4 5 6]  
[7 8 9]

**[See also  Python for Data Science NPTEL | Week 4](https://progiez.com/nptel-python-for-data-science-assignment-4-answers" \t "_blank)**

**Answer: [4 5 6]**

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**Q3. What is the output of the following code?**

[2, 3, 4, 5]  
[0 1 2 3]  
[1, 2, 3, 4]  
Will throw an error: Set objects are not iterable.

**Answer:[1, 2, 3, 4]**

**Q4. What is the output of the following code?**

import numpy as np  
arr = np.array (np.arange(0, 15))  
print(arr.reshape (3,5))

**Answer: c)**

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**Q5. Which of the following code gives output My friend’s house is in Chennai?**

**Answer: a),d)**

**Q6. Let t1 = (1, 2, “tuple”, 4) and t2 = (5, 6, 7). Which of the following will not give any error after the execution?**

a) t1.append(5)

b) x=t2[t1[1]]

c) t3=t1+t2

d) t3=(t1,t2)

e) t3=(list(t1),list(t2))

**Answer: b),c),d),e)**

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**Q7. Let d= {1 : “Pyhton”, 2 : [1, 2, 3]}. Which among the following will not give the error after the execution?**

a) d[2].append(4)

b) x=d[0]

c) d[“one”]=1

d) d.update(‘one′:2)

**Answer: a),c),d)**

**Q8. Which of the following data type is immutable?**  
list  
set  
tuple  
dictionary

**Answer: tuple**

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**Q9. student = {‘name’: ‘Jane’, ‘age’: 25, ‘courses’: [‘Math’, ‘Statistics’]}  
Which among the following will return**  
{‘name’: ‘Jane’, ‘age’: 26, ‘courses’: [‘Math’, ‘Statistics’], ‘phone’: ‘123-456’}  
a) student.update({‘age’ : 26})  
b) student.update({‘age’ : 26, ‘phone’: ‘123-456’})  
c) student[‘phone’] = ‘123-456’  
d) student.update({‘age’ : 26})  
e) None of the above

**Answer: b),c)**

**Q10.What is the output of the following code?**

[‘M’, ‘A’, ‘H’, ‘E’, ‘S’, ‘H’]  
[‘m’, ‘a’, ‘h’, ‘e’, ‘s’, ‘h’]  
[‘M’, ‘a’, ‘h’, ‘e’, ‘s’, ‘h’]  
[‘m’, ‘A’, ‘H’, ‘E’, ‘S’, ‘H’]

**Answer: [‘M’, ‘A’, ‘H’, ‘E’, ‘S’, ‘H’]**

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**These are NPTEL Python for Data Science Assignment 2 Answers**

**Q1. Which of the following object does not support indexing?**  
tuple  
list  
dictionary  
set

**Answer: set**

**Q2. Given a NumPy array, arr = np.array([[[1, 2, 3], [4, 5, 6], [7, 8, 9]]]), what is the output of the command, print(arr[0][1])?**  
a. [[1 2 3]  
[4 5 6]  
[7 8 9]  
b. [1 2 3]  
c. [4 5 6]  
d. [7 8 9]

**Answer: c. [4 5 6]**

**Q3. What is the output of the following code?**  
[2, 3, 4, 5]  
[0 1 2 3]  
[1, 2, 3, 4]  
Will throw an error: Set objects are not iterable.

**Answer: [1, 2, 3, 4]**

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**These are NPTEL Python for Data Science Assignment 2 Answers**

**Q4. What is the output of the following code?**  
a)  
b)  
c)  
d)

**Answer: c) [[0 1 2 3 4 [ 5 6 7 8 9] [10 11 12 13 14]]**

**Q5. Which of the following code gives output My friend’s house is in Chennai?**  
a)  
b)  
c)  
d)

**Answer: a), d)  
a) place = ‘Chennai’  
print (“My friend’s house is in {}”. format (place) )  
d) print (“My friend’s house is in {}”. format (“Chennai”) )**

**Q6. Let t1=(1,2,“tuple”,4) and t2=(5,6,7). Which of the following will not give any error after the execution?**  
t1.append(5)  
x=t2[t1[1]]  
t3=t1+t2  
t3=(t1,t2)  
t3=(list(t1), list(t2))

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**Answer: b, c, d, e**

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**These are NPTEL Python for Data Science Assignment 2 Answers**

**Q7. Let d={1:“Pyhton”,2:[1,2,3]}. Which among the following will not give the error after the execution?**  
d[2].append(4)  
x=d[0]  
d[“one”]=1  
d.update({‘one’ : 2})

**Answer: a, c, d**

**Q8. Which of the following data type is immutable?**  
list  
set  
tuple  
dictionary

**Answer: tuple**

**Q9. student = {‘name’: ‘Jane’, ‘age’: 25, ‘courses’: [‘Math’, ‘Statistics’]}  
Which among the following will return  
{‘name’: ‘Jane’, ‘age’: 26, ‘courses’: [‘Math’, ‘Statistics’], ‘phone’: ‘123-456’}?**  
a. student.update({‘age’ : 26})  
b. student.update({‘age’ : 26, ‘phone’: ‘123-456’})  
c. student[‘phone’] = ‘123-456’  
student.update({‘age’ : 26})  
d. None of the above

**Answer: a, b, c**

**Q10. What is the output of the following code?**  
[‘M’, ‘A’, ‘H’, ‘E’, ‘S’, ‘H’]  
[‘m’, ‘a’, ‘h’, ‘e’, ‘s’, ‘h’]  
[‘M’, ‘a’, ‘h’, ‘e’, ‘s’, ‘h’]  
[‘m’, ‘A’, ‘H’, ‘E’, ‘S’, ‘H’]

**Answer: [‘M’, ‘A’, ‘H’, ‘E’, ‘S’, ‘H’]**

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**Python for Data Science NPTEL Week 2 Assignment Answers (JAN-APR 2023)**

**Course Name: Python for Data Science**

**Course Link:**[**Click Here**](https://onlinecourses.nptel.ac.in/noc23_cs21/course)

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**Q1. What will be the output of the following:**

a. [[2 6 10]  
[4 8 12]]  
b. [[2 4 6]  
[8 10 12]]  
c. [[2 4]  
[6 8]  
[10 12]]  
d. [[2 8]  
[4 10]  
[6 12]]

**Answer: b. [[2 4 6]  
[8 10 12]]**

**Q2. Let t1 = (1, 2, “tuple”, 4) and t2 = (5, 6, 7). Which of the following will not give any error after the execution?**  
a. t1.append(5)  
b. x = t2[t1[1]]  
c. t3 = t1 + t2  
d. t3 = (t1, t2)  
e. t3 = (list(t1), list(t2))

**Answer: a, b, c, d, e**

**These are NPTEL Python for Data Science Assignment 2 Answers**

**Q3. Let d1 = {1 : “Pyhton”, 2 : [1, 2, 3]}. Which among the following will not give the error after the execution?**  
a. d1[2].append(4)  
b. x = d1[0]  
c. d1[“one”] = 1  
d. d1.update({‘one’ : 2})

**Answer: a, c, d**

**Q4. S1 = {1, 2, 3}  
S2 = {5, 6, 3}  
S1.add(4)  
S2.add(“4”)  
What will be the output of S1 − S2?**  
a. {1, 2, 3}  
b. {1, 2, 3, 4}  
c. {1, 2, “4”}  
d. {1, 2, 4}

Answer: d. {1, 2, 4}

**These are NPTEL Python for Data Science Assignment 2 Answers**

**Q5. S1 = “Hello” and S2 = “World”. Which of the following will not return “Hello world”?**  
a. S1 + “ ” + S2  
b. S1[0 :] + “ ” + S2[0 :]  
c. “{} {}”.format(S1, S2)  
d. S1[: −1] + “ ” + S2[: −1]

**Answer: d. S1[: −1] + “ ” + S2[: −1]**

**Q6. Given a NumPy array, arr = np.array([[1, 9, 10], [3, 7, 6], [12, 8, 0]]), find the correct command from the following options to get an output array as [16 24 16]?**  
a. arr[1: 2]  
b. np.sum(arr, axis = 0)  
c. np.sum(arr, axis = 1)  
d. np.sum([[1, 9, 10], [3, 7, 6], [12, 8, 0]])

**Answer: b. np.sum(arr, axis = 0)**

**These are NPTEL Python for Data Science Assignment 2 Answers**

**Q7. mat = np.matrix(“5, 9, 10; 2, 5, 4; 1, 9, 8; 2, 6, 8”)  
mat1 = np.matrix(“1, 2, 3, 4”)  
mat2 = np.insert(mat, 1, mat1, axis= 1)  
print(mat2)  
What will be the output of the above command?**  
a. [[5 2 1 2]  
[1 2 3 4]  
[9 5 9 6]]  
[10 4 8 8]]  
b. [[1 2 3 4]  
[5 2 1 2]  
[9 5 9 6]]  
[10 4 8 8]]  
c. [[5 1 9 10]  
[2 2 5 4]  
[1 3 9 8]]  
[2 4 6 8]]  
d. It will give an error.

**Answer: d. It will give an error.**

**Q8. student = {‘name’: ‘Jane’, ‘age’: 25, ‘courses’: [‘Math’, ‘Statistics’]}  
Which among the following will return  
{‘name’: ‘Jane’, ‘age’: 26, ‘courses’: [‘Math’, ‘Statistics’], ‘phone’: ‘123-456’}**  
a. student.update({‘age’ : 26})  
b. student.update({‘age’ : 26, ‘phone’: ‘123-456’})  
c. student[‘phone’] = ‘123-456’  
d. student.update({‘age’ : 26})  
e. None of the above

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**Answer: b, c**

**These are NPTEL Python for Data Science Assignment 2 Answers**

**Q9. c = np.arange(start = 1, stop = 20, step = 3). What is c[5]?**  
a. 13  
b. 16  
c. 15  
d. 12

**Answer: b. 16**

**Q10. Which of the following data type is immutable?**  
a. list  
b. set  
c. tuple  
d. dictionary

**Answer: c. tuple**

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**Python for Data Science NPTEL Week 2 Assignment Answers (JULY-DEC 2022)**

**Q1. Which of the following function(s) can be used to resize a NumPy array in Python from the given options.**  
a. array.shape(reshape)  
**b. array.reshape(shape)**  
**c. numpy.reshape(array, shape)**  
d. numpy.reshape(shape, array)

**Answers: b, c**

**These are NPTEL Python for Data Science Assignment 2 Answers**

**2. Create the tuples given below:**  
**tuple\_1 = (1,5,6,7,8)**  
**tuple\_2 = (8,9,4)**

**Identify which of the following options does not work on the given tuples**

a. sum(tuple\_1)  
b. len(tuple\_2)  
c. tuple\_2 + tuple\_1  
**d. tuple\_1[3] = 45**

**Answers:** **d. tuple\_1[3] = 45**

**3. Create a sequence of numbers from 15 to 25 and increment by 4. What is the index of the element 19?**  
a. 3  
b. 2  
c. 0  
**d. 1**

**Answers:** **d. 1**

**These are NPTEL Python for Data Science Assignment 2 Answers**

**4. Consider a variable job = “chemist”. Which of the following expression(s) will retrieve the last character from the string?**

a. job[7]  
**b. job[len(job) – 1]**  
c. job[5:6]  
**d. job[- 1]**

**Answers: b, c**

**5. Given a list, ls = [1, 2, 3, 3, 2, 3, 1, 4, 5, 6, 5, 6, 3, 2, 1, 1, 1, 7, 8, 9, 7, 8, 9, 7, 8, 9, 7, 8, 9, 10, 10, 1, 2, 3, 9, 10], which of the following would be the most efficient method in determining the unique elements present in ls?**  
a. By converting ls into a NumPy array, and applying relevant methods  
**b. By converting ls into a set**  
c. By iterating through ls, and doing appropriate manipulations  
d. None of the above

**Answers:** **b. By converting ls into a set**

**These are NPTEL Python for Data Science Assignment 2 Answers**

**6. Which of the following data structure(s) can be used as a key while creating a dictionary?**  
a. list  
**b. str**  
c. set  
d. None

**Answers:** **b. str**

**7. Given a dictionary, states = {‘Tamil Nadu’: ‘TN’, ‘Karnataka’: ‘KA’, ‘Kerala’: ‘KL’, ‘Maharashtra’: ‘MH’}, which of the following command(s) is used to remove the key-value pair ‘Karnataka’: ‘KA’ from it?**  
a. del states[‘Karnataka’]  
b. states.popitem(‘Karnataka’)  
**c. states.pop(‘Karnataka’)**  
d. del states[‘Karnataka’:’KA’]

**Answers:** **c. states.pop(‘Karnataka’)**

**8. Which of the following is valid to declare a string literal Shin’ichi to a variable?**  
**a. “Shin’ichi”**  
b. ‘Shin”ichi’‘  
c. Shin’ichi’  
d. None of the above

**Answers:** **a. “Shin’ichi”**

**These are NPTEL Python for Data Science Assignment 2 Answers**

**9. Which of the following commands can be used to create a NumPy array?**  
a. np.array()  
b. np.zeros()  
c. np.empty()  
**d. All of the above**

**Answers:** **d. All of the above**

**10. Given a NumPy array, arr = np.array([[5,9,10], [7,2,6], [12,8,0]]), find the correct command from the following options to get an output array as [24 15 20]?**

a. np.sum(arr)  
b. np.sum(arr, axis = 0)  
**c. np.sum(arr, axis = 1)**  
d. None of the above

**Answers:** **c. np.sum(arr, axis = 1)**