



NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Python For Data Science (course)

[Announcements \(announcements\)](#) [About the Course \(preview\)](#) [Q&A \(forum\)](#) [Progress \(student/home\)](#) [Mentor \(student/mentor\)](#)

[Review Assignment \(assignment\\_review\)](#) [Course Recommendations !\[\]\(17413706fd4997a1a4bdf85c6864eee1\_img.jpg\) \(/course\\_recommendations\)](#)



If already registered, click  
to check your payment  
status

## Course outline

How does an NPTEL  
online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

- ☐ Reading data (unit?  
unit=41&lesson=42)
- ☐ Pandas Dataframes I (unit?  
unit=41&lesson=43)
- ☐ Pandas Dataframes II  
(unit?unit=41&lesson=44)
- ☐ Pandas Dataframes III  
(unit?unit=41&lesson=45)
- ☐ Control structures &  
Functions (unit?  
unit=41&lesson=46)
- ☐ Exploratory data analysis  
(unit?unit=41&lesson=47)
- ☐ Data Visualization-Part I  
(unit?unit=41&lesson=48)
- ☐ Data Visualization-Part II  
(unit?unit=41&lesson=49)
- ☐ Dealing with missing data  
(unit?unit=41&lesson=50)
- ☒ Datasets (unit?  
unit=41&lesson=51)
- ☒ Week 3: Lecture slides  
(unit?unit=41&lesson=52)
- ☒ Week 3 - FAQs (unit?  
unit=41&lesson=53)
- ☐ Practice: Week 3:  
Assignment 3 (Non  
Graded) (assessment?  
name=111)
- ☐ Quiz: Week 3:  
Assignment 3  
(assessment?name=121)
- ☒ Week 3 Feedback Form :  
Python For Data Science  
(unit?unit=41&lesson=115)

Week 4 ()

Supporting material for  
Week 4 ()

Download Videos ()

Books ()

# Week 3: Assignment 3

The due date for submitting this assignment has passed.

Due on 2023-08-16, 23:59 IST.

As per our records you have not submitted this assignment.

1) Which of the following is the correct approach to fill missing values in case of categorical variable? 1 point

- ☐ Mean
- ☐ Median
- ☐ Mode
- ☐ None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Mode

Assume a pandas dataframe df\_cars which when printed is as shown below. Based on this information, answer questions 2 and 3.

	Car name	Type	Brand	Price (in lakhs)
0	A2	Sedan	ASP	15
1	C3	SUV	TRE	20
2	D2	Hatchback	ASP	14
3	A3	Sedan	TOY	13
4	C6	MUV	TOY	18

2) Of the following set of statements, which of them can be used to extract the column **Type** as a separate dataframe? 1 point

- ☐ df\_cars[["Type"]]
- ☐ df\_cars.iloc[:, 1]
- ☐ df\_cars.loc[:, ["Type"]]
- ☐ None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

df\_cars[["Type"]]

df\_cars.loc[:, ["Type"]]

3) The method df\_cars.describe() will give description of which of the following column? 1 point

- ☐ Car name
- ☐ Brand
- ☐ Price (in lakhs)
- ☐ All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Price (in lakhs)

4) Which pandas function is used to stack the dataframes vertically? 1 point

- ☐ pd.merge()
- ☐ pd.concat()
- ☐ join()
- ☐ None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

pd.concat()

5) Which of the following are libraries in Python? 1 point

- ☐ Pandas
- ☐ Matplotlib

## Text Transcripts ()

### Problem Solving Session - July 2023 ()

- ☐ NumPy  
☐ All of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*All of the above*

Read the 'flavors\_of\_cocoa.csv' (<https://drive.google.com/file/d/1EB0OnTXy1R4JTz6HFXVLeX4Kzk8XBnNs/view?usp=sharing>) file as a dataframe 'df\_cocoa' and answer questions 6-9.

The description of features/variables is given below:

Variable	Description
ID	Serial no.
Company	Name of a manufacturing company
Bean Origin	Place of origin of cocoa bean
Review Date	Year in which chocolates were rated
Cocoa percent	Percentage of cocoa in chocolate
Company Location	Location of a manufacturing company
Rating	Rating of chocolates

6) Which of the following variable have null values?

1 point

- ☐ ID  
☐ Company  
☐ Review Date  
☐ Rating

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Review Date*

7) Which of the following countries have maximum locations of cocoa manufacturing companies?

1 point

- ☐ U.K.  
☐ U.S.A.  
☐ Canada  
☐ France

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*U.S.A.*

8) After checking the data summary, which feature requires a data conversion considering the data values held?

1 point

- ☐ Rating  
☐ Review date  
☐ Company  
☐ Bean origin

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Review date*

9) What is the maximum rating of chocolates?

1 point

- ☐ 1.00  
☐ 5.00  
☐ 3.18  
☐ 4.00

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*5.00*

10) What will be the output of the following code?

1 point

```
import numpy as np
B = [True, 2, 3.0, np.nan, "False"]
[type(i) for i in B]
```

- ☐ [bool, int, float, float, str]  
☐ [str, int, float, float, str]  
☐ [bool, int, float, int, str]  
☐ [bool, int, int, float, str]

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*[bool, int, float, float, str]*