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



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Course  
outline

About NPTEL  
( )

How does an  
NPTEL online  
course work?  
( )

Week 0 ( )

Week 1 ( )

Week 2 ( )

Week 3 ( )

## Week 3: Practice Assignment 3

Assignment not submitted

**Note : This assignment is only for practice purpose and it will not be counted towards the Final score**

1) Which of the following can be inferred from scatter plot of '**mpg**' (Miles per gallon) vs '**wt**' (Weight of car) from the dataset **mtcars.csv** (<https://drive.google.com/file/d/1Ua21bZfbtN4DUw4fK9XCF3AJmclqSn4w/view?usp=sharing>)? **1 point**

- ☐ As weight of the car increases, the mpg decreases
- ☐ As weight of the car increases, the mpg increases
- ☐ There is no relation between weight of the car and mpg
- ☐ When weight increases, mpg increases exponentially

2) Plot a boxplot for "**price**" vs "**cut**" from the dataset "**diamond.csv**" (<https://drive.google.com/file/d/1oSRxIHG8NcK9jNglN4Q1Y5GGi6Jm5asX/view?usp=sharing>). Which of the categories under "**cut**" have the highest median price? **1 point**

- ☐ Good
- ☐ Ver Good
- ☐ Premium
- ☐ Fair

3) In the **churn.csv** (<https://drive.google.com/open?id=14eJFzce4nMREzCsd4tCTewnFdZ6GZAD4>) dataframe, what are the total no. of missing for the variable **TotalCharges**? **1 point**



● 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

- ☐ 10
- ☐ 23
- ☐ 15
- ☐ 5

4) The command used for line plot from the package **Matplotlib**?

**1 point**

- ☐ plot( )
- ☐ line( )
- ☐ join( )
- ☐ plt( )

5) The probability of two different events occurring at the same time is known as

**1 point**

- ☐ Marginal probability
- ☐ Conditional probability
- ☐ Joint probability
- ☐ Marginal and Joint probability

**Check Answers and Submit**



=51)

● Week 3:  
Lecture slides  
(unit?  
unit=41&lesson  
=52)

● Week 3 - FAQs  
(unit?  
unit=41&lesson  
=53)

● Week 3  
Feedback Form  
: Python for  
Data Science  
(unit?  
unit=41&lesson  
=115)

○ Practice:  
Week 3:  
Practice  
Assignment 3  
(assessment?  
name=158)

○ Quiz: Week 3 :  
Assignment 3  
(assessment?  
name=162)

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**Week 4 ()**

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**Supporting  
material for  
Week 4 ()**

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**Download  
Videos ()**

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**Text  
Transcripts ()**

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**Problem  
Solving  
Session - Jan  
2025 ()**



