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

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## Unit 5 - Week 3

### Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

● Datasets (unit? unit=3&amp;lesson=93)

● Reading data (unit? unit=3&amp;lesson=20)

● Pandas Dataframes I (unit? unit=3&amp;lesson=27)

● Pandas Dataframes II

## Practice Assignment 3

The due date for submitting this assignment has passed. **Due on 2020-02-19, 23:59 IST.**  
As per our records you have not submitted this assignment.

Click here (<https://drive.google.com/open?id=1BvWnRkP2mDVtColL7JhR8yjuduTp9OjB>) to download the Data description and Data sets.

**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** **1 point**  
(<https://drive.google.com/file/d/1Ua21bZfbtN4DUw4fK9XCF3AJmclqSn4w/view?usp=sharing>)?

- ☐ 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

No, the answer is incorrect.  
Score: 0

Accepted Answers:

*As weight of the car increases, the mpg decreases*

(unit?  
unit=3&lesson=21)

● Pandas  
Dataframes III  
(unit?  
unit=3&lesson=22)

● Control  
structures &  
Functions (unit?  
unit=3&lesson=23)

● Exploratory data  
analysis (unit?  
unit=3&lesson=24)

● Data  
Visualization-  
Part I (unit?  
unit=3&lesson=49)

● Data  
Visualization-  
Part II (unit?  
unit=3&lesson=25)

● Dealing with  
missing data  
(unit?  
unit=3&lesson=26)

● Week 3: Lecture  
slides (unit?  
unit=3&lesson=88)

○ Quiz : Practice  
Assignment 3  
(assessment?  
name=68)

○ Quiz :  
Assignment 3  
(assessment?  
name=92)

● Week 3 - FAQs  
(unit?  
unit=3&lesson=98)

○ Week 3  
Feedback (unit?  
unit=3&lesson=94)

○ Solution -  
Assignment 3  
(unit?  
unit=3&lesson=100)

## Week 4

2) Plot a boxplot for “**price**” vs “**cut**” from the dataset “**diamond.csv**” **1 point**  
(<https://drive.google.com/file/d/1oSRxIHG8NcK9jNgl4Q1Y5GGi6Jm5asX/view?usp=sharing>”).

Which of the categories under “**cut**” have the highest median price?

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

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Fair*

3) In the **churn.csv** (<https://drive.google.com/open?id=14eJFzce4nMREzCsd4tCTewnFdz6GZAD4>) dataframe, what are the total no. of missing values for the variable **TotalCharges**? **1 point**

- ☐ 10
- ☐ 23
- ☐ 15
- ☐ 5

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*15*

4) The command used for line plot from the package **Matplotlib**? **1 point**

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

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*plot( )*

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

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Joint probability*

**Supporting  
material for Week  
4**

**Download Videos**