X

Week 3: Assignment 3

The due date for submitting this assignment has passed.

Due on 2023-02-15, 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 liabraries in Python? ***1 point***

- ( ) Pandas
- ( ) Matplotlib
- ( ) NumPy
- ( ) All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
All of the above

Read the comma-separated values file hotel bookings.csv (https://drive.google.com/file/d/1mlmTyULec38KJGkYACQMhuPDOc-vlJXk/view?usp=sharing)

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as a dataframe data hotel and answer questions 6 - 8. Please refer to Hotel Bookings Data Description.pdf (https://drive.google.com/file/d/1kIJmX6m5qa1qaNu4SQRCwBWXWhVTUCcu/view?usp=sharing) for data and variable description.

6) Choose the appropriate command(s) to filter those booking details whose **`reservation-status`** are a **`No-show`**? ***1 point***

- `data_hotel_ns = data_hotel.loc[data_hotel.reservation_status = 'No-Show']`
- `data_hotel_ns = data_hotel[data_hotel.reservation_status == 'No-Show']`
- `data_hotel_ns = data_hotel.reservation_status.loc[data_hotel.isin(['No-Show'])]`
- `data_hotel_ns = data_hotel.loc[data_hotel.reservation_status.isin(['No-Show'])]`

No, the answer is incorrect.
Score: 0

Accepted Answers:

`data_hotel_ns = data_hotel[data_hotel.reservation_status == 'No-Show']`

`data_hotel_ns = data_hotel.loc[data_hotel.reservation_status.isin(['No-Show'])]`

7) From the same data, find how many bookings were **`not canceled`** in the year **2017**? ***1 point***

- 9064
- 6231
- 9046
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
9064

8) From the total bookings that were made in 2017 and not canceled, which month had the highest number of repeated guests? ***1 point***

- July
- February
- January
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:
July

9) What will be the output of the following code? ***1 point***

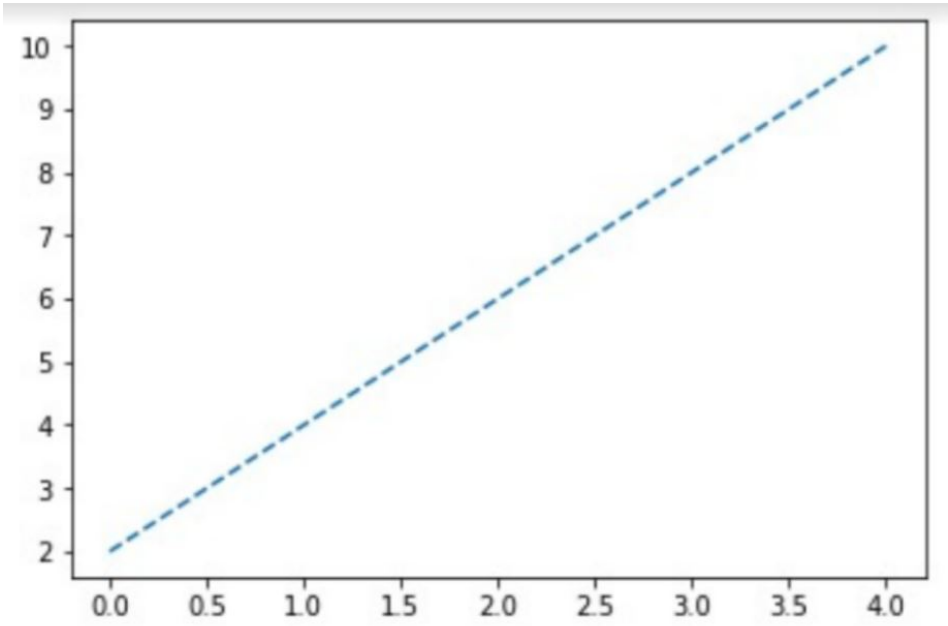
```
import numpy as np
B = [True, 2, 3.0, np.nan, "False"]
[type(i) for i in B]
```

- [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]

10) Which command is used to generate the plot shown below? ***1 point***



- plt.plot(x, linestyle = “-”)
- plt.plot(x, linestyle = “–”)
- plt.plot(x, linestyle = “-.”)
- plt.plot(x, linestyle = “:”)

No, the answer is incorrect.
Score: 0

Accepted Answers:
plt.plot(x, linestyle = “-”)