

Summer Analytics 2022

A primer course on Data Science and Machine Learning

Week-1 Quiz (Graded)

Total points 29/30





Hope that you've gone through the course content for week-1 as well as the covered assignment before attempting the quiz.

- This form accepts the solution only once, so make sure you don't press the submit button accidentally. No requests will be entertained.
- Use the SAME email ID which you used for registering for Summer Analytics 2022.
- Please follow the honor code, which otherwise may lead to harsh actions being taken.

All the best:)

Email *

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0 of 0 points

Name *

Hriday Agrawal

Enrolment ID *

This is a 5-digit number of the form XXXXX. It can be found in the enrolment confirmation mail sent to you.

41395

Are you from IIT Guwahati?*







No

If you are from IIT Guwahati , provide your roll no.

Graded Questions

8 of 8 points

Answer the following questions. Some of them are related to the assignment, so make sure you have completed the assignment first.

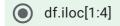
✓ 1. Consider the table below. Which of the above variable(s) are classified 2/2 as ordinal variable(s)? (Multiple Correct)

ID	Age	Gender	Height	Blood group	tDL †	Feeling happy?	Number of children	Smoke?	Social class
1	25	М	1.52	0	154	Strongly agree	0	No	II
2	35	F	1.66	В	132	Disagree	1	Yes	III
3	44	М	1.44	В	151	Agree	3	Yes	II
4	28	М	1.22	AB	198	Indifferent	0	No	I
5	35	F	1.43	Α	231	Indifferent	2	Yes	II
6	42	М	156	0	222	Agree	2	Yes	I
7	36	F	1.81	В	103	Strongly disagree	1	No	IV
8	38	М	1.54	AB	125	Strongly agree	1	Yes	III
9	30	М	1.47	Α	280	Indifferent	0	No	V
10	40	F	1.18	В	187	Strongly disagree	6	No	III
:	:	:	:	:	:	:			

Blood Group



✓ 2. What is the code snippet which will give the following output 1/1 according to the given DataFrame?







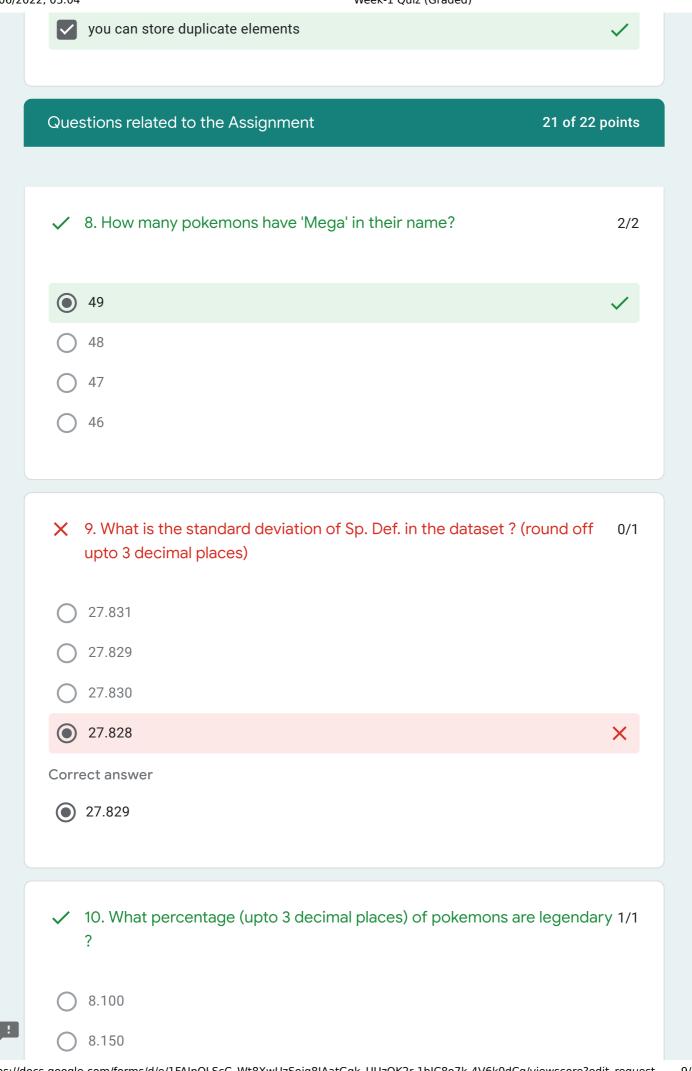
df.loc[1:4]

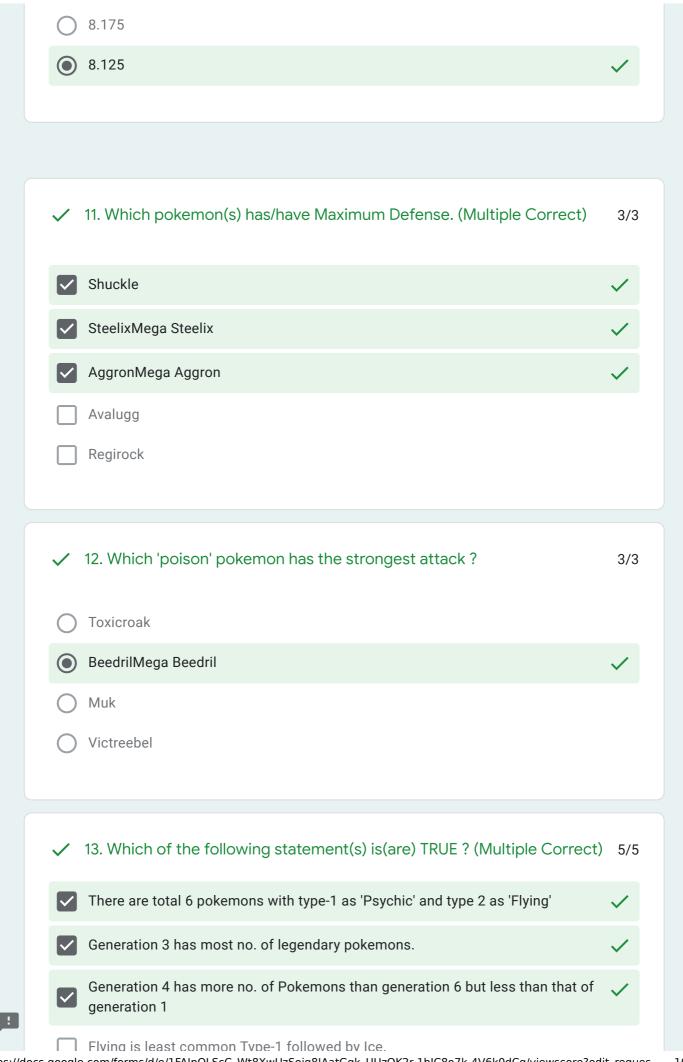
```
3. Given x = \text{np.array}([[1, 2], [3, 4], [2, 2], [9, 6]])
                                                                     1/1
print(np.sum(x))
print(np.sum(x, axis=0))
print(np.sum(x, axis=1))
                                                  [15 14]
           [3 7 4 15]
           [15 14]
   Option 1
                                          Option 3
             4 15]
                                                      4 15]
            [15
   Option 2
                                       Option 4
```

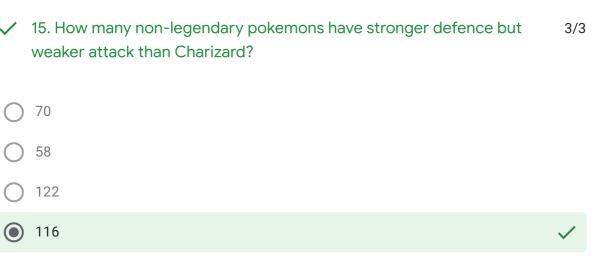
```
✓ What is the correct output for the following code?
                                                                      1/1
import numpy as np
x = np.array([[5,2,1,7], [9,5,2,8], [7,3,8,11], [15, 11, 20, 12]])
v = np.array([4, 0, 2, 1])
y = x + v
print(y)
a) [9 2 3 8]
   [13 5 4 9]
   [11 3 10 12]
   [19 11 22 13]
b) [[9 2 3 8]
   [9 5 2 8]
   [7 3 8 11]
   [15 11 20 12]]
 c)[[9 2 1 7]
   [9 5 2 8]
   [9 3 8 11]
   [16 11 20 12]]
 d)[[9 2 3 8]
   [13 5 4 9]
   [11 3 10 12]
   [19 11 22 13]]
```

5. Fill in the Blanks 1/1 import matplotlib.pyplot as plt fig = plt.figure(figsize=(15,5)) x = np.arange(0, 3 * np.pi, 0.1)y_sin = np.sin(x) $y_{cos} = np.cos(x)$ y_tan = np.tan(x) plt.plot(x, y_sin)
plt.title('Sine') plt.plot(x, y_cos)
plt.title('Cos') plt.plot(x, y_tan) plt.title('Tan') plt.show() Sine Tan Cos 1.00 80 1.00 0.75 0.75 60 0.50 0.50 40 0.25 0.25 0.00 0.00 20 -0.25 -0.25 -0.50 -0.50-0.75 -20 -0.75 -1.00-1.00ò i) plt.subplot(1, 3, 1), ii) plt.subplot(1, 3, 3), iii) plt.subplot(1, 3, 2) None i) plt.subplot(1, 3, 1), ii) plt.subplot(1, 3, 2), iii) plt.subplot(1, 3, 3) i) plt.subplot(1, 3, 1), ii) plt.subplot(1, 3, 1), iii) plt.subplot(1, 3, 1)

```
6. Which of the following does not give an error?
                                                                             1/1
   a = ('a','b','c','d')
   a[0] = 'j'
                                                a[0] = 'j'
   print(a)
                                                print(a)
 Option 1
                                             Option 2
 a = ['a','b','c','d','h']
                                                      s ='gndjhf'
                                                      s[0] = 'j'
 a[5] = 'j'
                                                      print(s)
 print(a)
                                              Option 3
Option 4
7. Which of the following statements are false about sets in python?
                                                                            1/1
 elements contained in the set must be of immutable type
 sets store data in ordered way by default
 sets are mutable
```







You've reached the end of the quiz! 0 of 0 points I have filled the correct credentials in the first section, read all my answers and * confirm that is my final submission. Yes

4/4

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