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BATCH-DS2306

:Question and Answer

- 1) 1 What will be the output of the following code snippet? `def func(a, b): return b if a == 0 else func(b % a, a) print(func(30, 75))`

Ans: C -15

- 2) 2 numbers = (4, 7, 19, 2, 89, 45, 72, 22) sorted_numbers = sorted(numbers) even = lambda a: a % 2 == 0 even_numbers = filter(even, sorted_numbers) print(type(even_numbers))

Ans: C-LIST

Numbers: [2,4,22,72]

- 3) As what datatype are the *args stored, when passed into

Ans: A –Tuple

- 4) set1 = {14, 3, 55} set2 = {82, 49, 62} set3={99,22,17} print(len(set1 + set2 + set3))

Ans: D: Error

Reason : firstly we have to combined the 3 sets by using Union method

- 5) What keyword is used in Python to raise exceptions?

Ans : A : Raise

- 6) Which of the following modules need to be imported to handle date time computations in Python?

Ans: C- datetime

- 7) What will be the output of the following code snippet? `print(4**3 + (7 + 5)**(1 + 1))`

Ans: C-208

- 8) Which of the following functions converts date to corresponding time in Python?

Ans: B-strftime

- 9) The python tuple is _____ in nature.

Ans: B-Immutable

10) The ____ is a built-in function that returns a range object that consists series of integer numbers, which we can iterate using a for loop

Ans: A: Range()

11) Amongst which of the following is a function which does not have any name?

Ans: C-Lambda

12) The module Pickle is used to ____.

Ans: C- . Both A and B

13) Amongst which of the following is / are the method of convert Python objects for writing data in a binary file?

Ans: B-dump() method

14) Amongst which of the following is / are the method used to unpickling data from a binary file?

Ans: A-Load

15) A text file contains only textual information consisting of ____.

Ans: D- All of the Mention above

16) Which Python code could replace the ellipsis (...) below to get the following output? (Select all that apply.)
captains = { "Enterprise": "Picard", "Voyager": "Janeway", "Defiant": "Sisko", }
Enterprise Picard, Voyager Janeway Defiant Sisko.

Ans: D-Both A & B

17) Which of the following lines of code will create an empty dictionary named captains?

Ans: D- captains = {}

18) Now you have your empty dictionary named captains. It's time to add some data! Specifically, you want to add the key-value pairs "Enterprise": "Picard", "Voyager": "Janeway", and "Defiant": "Sisko". Which of the following code snippets will successfully add these key-value pairs to the existing captains dictionary?

Ans: B- captains["Enterprise"] = "Picard" captains["Voyager"] = "Janeway" captains["Defiant"] = "Sisko"

19) You're really building out the Federation Starfleet now! Here's what you have: captains = { "Enterprise": "Picard", "Voyager": "Janeway", "Defiant": "Sisko", "Discovery": "unknown", } Now, say you want to display the ship and captain names contained in the dictionary, but you also want to provide some additional context. How could you do it?

Ans: B- for ship, captain in captains.items(): print(f"The {ship} is captained by {captain}.")

20) You've created a dictionary, added data, checked for the existence of keys, and iterated over it with a for loop. Now you're ready to delete a key from this dictionary: captains = { "Enterprise": "Picard", "Voyager": "Janeway", "Defiant": "Sisko", "Discovery": "unknown", } What statement will remove the entry for the key "Discovery"?

Ans: C

21) When implementing linear regression of some dependent variable y on the set of independent variables $\mathbf{x} = (x_1, \dots, x_r)$, where r is the number of predictors, which of the following statements will be true?

Ans: D- Both A and B

22) What indicates that you have a perfect fit in linear regression? with syntax in python

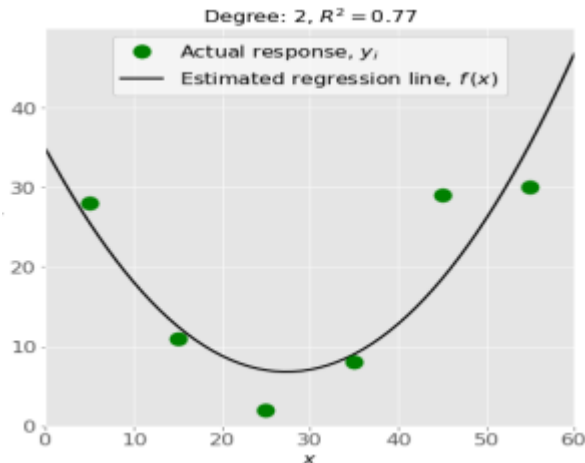
Ans: D- The Value $R^2=1$, which correspondence to to $SSR=0$

23) In simple linear regression, the value of what shows the point where the estimated regression line crosses the y axis?

Ans: B- BO

24) Check out these four linear regression plots:

Ans: B- top right plot



25) There are five basic steps when you're implementing linear regression: • a. Check the results of model fitting to know whether the model is satisfactory. • b. Provide data to work with, and eventually do appropriate transformations. • c. Apply the model for predictions. • d. Import the packages and classes that you need. • e. Create a regression model and fit it with existing data.

Ans: C- d,e,c,b,a

26) Which of the following are optional parameters to LinearRegression in scikit-learn?

Ans: B-fit_intercept

27) While working with scikit-learn, in which type of regression do you need to transform the array of inputs to include nonlinear terms such as x^2 ?

Ans: C-Polynomial Regression

28) You should choose statsmodels over scikit-learn when:

Ans: You need more detailed results

29) _____ is a fundamental package for scientific computing with Python. It offers comprehensive mathematical functions, random number generators, linear algebra routines, Fourier transforms, and more. It provides a high-level syntax that makes it accessible and productive.

Ans: B-Numpy

30) _____ is a Python data visualization library based on Matplotlib. It provides a high-level interface for drawing attractive and informative statistical graphics that allow you to explore and understand your data. It integrates closely with pandas data structures.

Ans: B-Seaborn