AWP Final Assessment

TE MARKS (/PACKAGE-COST-DETAILS/REGENERATE-MARKS?STUDENTID=20453&ASSESSMENTID=214876)

Score Obtained:
48/50 (96%)

RETAKE (/PACKAGE-COST-DETAILS/#)   VIEW REPORT

Numpy developed by?

1/1   ATTEMPTED

- ○ Guido van Rossum

- ◉ Travis Oliphant

- ○ Wes McKinney

- ○ Jim Hugunin

2. How do you access a specific element in a NumPy array?   1/1   ATTEMPTED

- ○ Using the locate() function

- ○ With the get() method

- ◉ Through indexing, e.g., array[2]

- ○ By applying the find() function

3. What is the purpose of the numpy.arange() function?   1/1   ATTEMPTED

- ◉ To create an array with evenly spaced values within a given range

To count the number of elements in an array

To reverse the order of elements in an array

To find the minimum value in an array

4.
What will be output for the following code?

import pandas as pd

s = pd.Series([1,2,3,4,5],index = ['a','b','c','d','e'])

print s['a']

1/1 ATTEMPTED

○ 1

○ 2

○ 3

○ 4

5.
Which of the following takes a dict of dicts or a dict of array-like sequences and returns a DataFrame?

0/1 ATTEMPTED

○ DataFrame.from_items

○ DataFrame.from_records

● DataFrame.from_dict

○ All of the above

6. What will be the output of print(df.loc[:])

○ Display 'Error'

○ Display all rows

○ Display all columns

● Display all rows & columns

7.
Data can be visualized using?

○ graphs

○ charts

○ maps

● All of the above

8.
Which of the following is false?

○ data visualization include the ability to absorb information quickly

○ Data visualization is another form of visual art

● Data visualization decrease the insights and take solwer decisions

○ None Of the above

9. The best suitable chart to display Data Trends is   1/1   ATTEMPTED

○ Bar Chart

◉ Line chart

○ Pie Chart

○ Histogram

10. What type of plot is suitable for visualizing the trend of a continuous variable over a continuous interval?   1/1   ATTEMPTED

○ Bar plot

○ Pie chart

○ Scatter plot

◉ Line plot

11. Which type of plot is commonly used to visualize the count or frequency of categorical data?   1/1   ATTEMPTED

○ Line plot

○ Scatter plot

◉ Bar plot

○ Heat map

12.

What will be output for the following code?

import numpy as np

ary = np.array([1,2,3,5,8])

ary = ary + 1

print (ary[1])

1/1 ATTEMPTED

○ 0

○ 1

○ 2

⦿ 3

13.

Which of the following statement is wrong?

0/1 ATTEMPTED

○ We can create Series from Dictionary in Python.

○ Keys of dictionary become index of the series.

⦿ Order of indexes created from Keys may not be in the same order as typed in dictionary.

○ All are correct

14.

Which of the following functions can be used to create arrays?

○ array

○ arange

○ linspace

● All of these

15. Which of the following returns the total number of elements in the ndarray?

1/1 ATTEMPTED

○ ndim

○ shape

● size

○ dtype

16. Which of the following returns the data type of elements in the array?

1/1 ATTEMPTED

○ ndim

○ shape

○ size

● dtype

17.

All pandas data structures are ____ mutable but not always _____mutable.

1/1 ATTEMPTED

○ size, value

○ semantic, size

◉ value, size

○ none of the mentioned

18.
Which of the following library is similar to Pandas?

◉ NumPy   1/1   ATTEMPTED

○ RPy

○ OutPy

○ None of the mentioned

19.

1. Pandas is an open-source _____ Library?

○ Ruby   1/1   ATTEMPTED

○ Javascript

○ Java

◉ Python

20. _____ is an important library used for analyzing data   1/1   ATTEMPTED

○ Math

○ Random

◉ Pandas

○ None of the above

21. Which of the following is a reason that Pandas is used for analyzing the data?   1/1   ATTEMPTED

○ It is fast, easy and expressive

○ Flexible data manipulation

○ Integrates well with matplotlib library

◉ All of these

22. Which of the following notation can be used to access columns in a DataFrame?   1/1   ATTEMPTED

○ Dot Notation

○ Bracket Notation

◉ Both of these

○ None of these

23. Which of the following is a two-dimensional data structure in Pandas?

○ Series

◉ DataFrame

○ Panel

○ All of these

24. Which function in pandas Return a tuple representing the dimensionality of the DataFrame?

○ df.info()

◉ df.shape

○ df.dimension()

○ none of the above

25. Which of the following is a data structure in pandas?

○ Series

○ DataFrame

○ Panel

◉ All of these

26. How can you create multiple plots in a single figure using Matplotlib?

○ Using plt.multiplot()

○ Using plt.subplots()

○ Using plt.add_subplot()

○ Using plt.plot_subplots()

27. Which functions are used to set the x-axis and y-axis labels in a Matplotlib plot?   1/1   ATTEMPTED

○ plt.label_x() and plt.label_y()

◉ plt.xlabel() and plt.ylabel()

○ plt.set_xlabel() and plt.set_ylabel()

○ plt.x_label() and plt.y_label()

28. What is the purpose of adding a legend to a Matplotlib plot?   ATTEMPTED
1/1

○ To enhance the aesthetic appeal of the plot.

◉ To provide a key to distinguish between different datasets or plot elements.

○ To show the exact data values.

○ To summarize the analysis performed on the data.

29. How can you specify the location of the legend in a Matplotlib plot?
1/1   ATTEMPTED

○ By using plt.legend(location='best')

○ By using plt.legend(position='top')

○ By using plt.legend(loc='upper right')

○ By using plt.legend(pos='center')

30. Which parameter can you use in plt.title() to change the font size of the title?

1/1   ATTEMPTED

◉ fontsize

○ size

○ font_size

○ title_size

31. Which of the following is the correct way to set the color of a line in Matplotlib?

1/1   ATTEMPTED

○ plt.line(color='red')

◉ plt.plot(color='red')

○ plt.set_color('red')

○ plt.draw(color='red')

32. What function allows you to use a colormap for a series of data points in Matplotlib?

1/1   ATTEMPTED

○ plt.color()

○ plt.plot(cmap='viridis')

◉

plt.scatter(cmap='viridis')

○ plt.set_colormap('viridis')

33. Which of the following options correctly combines line style and marker style in a single plot?   1/1   ATTEMPTED

◉ plt.plot(x, y, linestyle='-', marker='^')

○ plt.plot(x, y, line='-', point='^')

○ plt.plot(x, y, style='-', marker='^')

○ plt.plot(x, y, dash='-', point_style='^')

34. How do you set the limits of the y-axis in a plot?   1/1   ATTEMPTED

◉ plt.ylim(lower_limit, upper_limit)

○ plt.set_ylim(lower_limit, upper_limit)

○ plt.y_limit(lower_limit, upper_limit)

○ plt.axis_y(lower_limit, upper_limit)

35. Which function is used to set the color palette for plots in Seaborn?   1/1   ATTEMPTED

◉ sns.set_palette()

○ sns.color_palette()

○ sns.set_colors()

○ sns.palette()

36. Which function is used to create a box plot in Seaborn?   1/1   ATTEMPTED

○ sns.boxplot()

○ sns.plot_box()

○ sns.box_plot()

○ sns.create_boxplot()

37. Which function is used to create a heatmap in Seaborn? 1/1   ATTEMPTED

◉ sns.heatmap()

○ sns.create_heatmap()

○ sns.plot_heatmap()

○ sns.heat_map()

38. What parameter controls the bandwidth of the KDE in Seaborn?

1/1   ATTEMPTED

◉ bw_adjust

○ bandwidth

○ bw

○ adjust

39. How can you set the x-axis limits when creating a KDE plot in Seaborn?

1/1 ATTEMPTED

○ sns.kdeplot(x).set_xlim(left, right)

○ sns.kdeplot(x, xlim=(left, right))

◉ plt.xlim(left, right) after plotting

○ sns.kdeplot(x, limit=(left, right))

40. Which function can be used to save a pairplot to a file?

1/1 ATTEMPTED

○ plt.save()

○ sns.pairplot.savefig()

◉ plt.savefig()

○ sns.save_pairplot()

41.
NumPY stands for?

1/1 ATTEMPTED

○ Numbering Python

○ Number In Python

◉ Numerical Python

○ None Of the above

42.
NumPy is often used along with packages like?

1/1 ATTEMPTED

- ○ Node.js

- ○ Matplotlib

- ○ SciPy

- ● Both B and C

43.
Which of the following Numpy operation are correct?

1/1 ATTEMPTED

- ○ Mathematical and logical operations on arrays.

- ○ Fourier transforms and routines for shape manipulation.

- ○ Operations related to linear algebra.

- ● All of the above

44. What is the output of the following code? import numpy as np a=np.arange(10) print(a[2:5])

1/1 ATTEMPTED

- ○ [0, 1, 2]

- ○ [5, 6, 7]

- ● [2, 3, 4]

- ○ [2, 4, 6]

45. How do you access a specific element in a NumPy array? 1/1 ATTEMPTED

○ Using the locate() function

○ With the get() method

◉ Through indexing, e.g., array[2]

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46. What is the purpose of the numpy.arange() function? 1/1 ATTEMPTED

◉ To create an array with evenly spaced values within a given range

○ To count the number of elements in an array

○ To reverse the order of elements in an array

○ To find the minimum value in an array

47. In NumPy, what does "vectorization" refer to? 1/1 ATTEMPTED

○ The process of creating vectors

◉ The ability to perform operations on entire arrays without the need for explicit looping

○ Converting arrays into matrices

○ Sorting elements in an array

48.

What is the syntax for dtype object?

○ numpy.dtype(object, align, copy, subok)

⊙ numpy.dtype(object, align, copy)

○ numpy.dtype(object, align, copy, ndmin)

○ numpy_dtype(object, align, copy)

49.

What is the output of the following?

import numpy as np

x=np.array([1,2,3,6,10])

y=x

z=np.copy(x)

print(x)

print(y)

print(z)

○ [1,2,3,6,10] [1,2,3,6,10]

⊙ [1,2,3,6,10] [1,2,3,6,10] [1,2,3,6,10]

○ [1,2,3,6]

○ [1,2,3,6] [1,2,3,6,10]

50. Which of the following represents the number of dimensions in ndarray?

⊙ ndim

○ shape

○ size

○ dtype