import numpy as ~~numpy~~ np

Assessment 6:

Python Numpy:

1) What does NumPy mean in Python?
2) how to import Numpy in python?
3) how to create 1D Array ?
4) how to identified datatype for Numpy array?
5) Create an array with 1 to 100 numbers and formatted with 10, 10.
6) How will you print size and shape of Numpyarray?
7) Create an array of 10 linearly spaced point between 9 to 99
8) Find all the odd number greater then 7 between 1 to 20, using fancy indexing method in array?

9) What will be the output of the below program?

- ar1 = np.array([1,2,3,4,5])
- ar2 = ar1
- print(ar2)
- ar2[4] = 999
- print(ar2)
- print(ar1)

10) Get the common items between two Numpy arrays
    - a = np.array([1,2,3,2,3,4,3,4,5,6])
    - b = np.array([7,2,10,2,7,4,9,4,9,8])

11) Explain how broadcasting in Numpy works?
12) Explain difference between np.loadtxt and np.genfromtxt?
13) What are the different options available in Numpy to stack arrays?
14) What is the use of append() function in Numpy? give an example
15) How to reshape an array?
16) How to get the positions where elements of two arrays match?
    - a = np.array([1,2,3,2,3,4,3,4,5,6])
    - b = np.array([7,2,10,2,7,4,9,4,9,8])

17) How to reverse the columns of a 2D array?
    - # Input
    - arr = np.arange(9).reshape(3,3)

18) How to compute the mean, median, standard deviation of a numpy array?
19) How to find if a given array has any null values?
20) How to drop all missing values from a numpy array?
    - a = np.array([1,2,3,np.nan,5,6,7,np.nan])

21) How to find Percentile and IQR using Numpy array?
22) How to Compute Z-score using Numpy array?
23) Explain what is the use of max and argmax([10, 3, 2, 5, 1])
24) How can I plot an histogram showing cumulative sum of sachin's runscore, If I have all scores of Sachin saved in array" Sachin"
25) What are missing features in Numpy to enable data analysis on relational data ?