Basic Python

Split this string

```
s = "Hi there Sam!"
      print(s.split())
       ['Hi', 'there', 'Sami']
       Italicized text ## 2 Use format() to print the following string.
       Output should be: The diameter of Earth is 12742 kilometers.
planet * "Earth"
       diameter = 12742
print("The diameter of", planet ,"is", diameter ,"kilometers.")
       The diameter of Earth is 12742 kilometers.
       In this nest dictionary grab the word "hello"
d = ('k1':{1,2,3,('tricky':['oh', 'man', 'inception',('target':[1,2,5,'hello'])]))
      print(d['k1'][3]['tricky'][3]['target'][3])
       hello
       Numpy
      import numpy as np
       4.1 Create an array of 10 zeros?
       4.2 Create an array of 10 fives?
       array*np.zeros(10)
       array=np.ones(10)*5
       5. Create an array of all the even integers from 20 to 35
import numpy as np
       array=np.arange(20,35,2)
       Create a 3x3 matrix with values ranging from 0 to 8
import numpy as no
       x = np.arange(0, 9).reshape(3,3)
       7. Concatinate a and b
```

In [] a = np.array([1,2,3])
b = np.array([4,5,6])
c = a,b
print(c)

a = np.array([1, 2, 3]), b = np.array([4, 5, 6])

Numpy import numpy as no 4.1 Create an array of 10 zeros? 4.2 Create an array of 10 fives? array*np.zeros(10) array*np.ones(10)*5 Create an array of all the even integers from 20 to 35 import numpy as np array=np.arange(20,35,2) 6. Create a 3x3 matrix with values ranging from 0 to 8 import numpy as np x = np.arange(0, 9).reshape(3,3)7. Concatinate a and b a = np.array([1, 2, 3]), b = np.array([4, 5, 6])a = np.array([1.2.3]) b = np.array([4.3.6]) c = a.b print(c) (array([1, 2, 3]), array([4, 5, 6])) Pandas 8. Create a dataframe with 3 rows and 2 columns import pandas as pd print(df) Name 0 Akash 6001 Prayeen Raj 6018 Viswanath 6304 Harish 6007 Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023 dates = pd.date_range(start = '1-1-2023',end = '2-10-2023') print(dates) DatetimeIndex({\(\) 2023-01-01'\) \\ 2023-01-02'\ \\ 2023-01-03'\ \\ 2023-01-05'\ \\ 2023-01-05'\ \\ 2023-01-06'\ \\ 2023-01-06'\ \\ 2023-01-07'\ \\ 2023-01-06'\ \\ 2023-01-11'\ \\ 2023-01-12'\ \\ 2023-01-13'\ \\ 2023-01-14'\ \\ 2023-01-15'\ \\ 2023-01-16'\ \\ 2023-01-16'\ \\ 2023-01-16'\ \\ 2023-01-16'\ \\ 2023-01-16'\ \\ 2023-01-21'\ \\ 2023-01-21'\ \\ 2023-01-22'\ \\ 2023-01-21'\ \\ 2023-01-22'\ \\ 2023-01-21'\ \\ 2023-01-22'\ \\ 2023-01-21'\ \\ 2023-01-23'\ \\ 2023-01-21'\ \\ 2023-01-26'\ \\ 2023-01-26'\ \\ 2023-01-26'\ \\ 2023-01-26'\ \\ 2023-02-01'\ \\ 2023-02-01'\ \\ 2023-02-06'\ \\ 2023-02dtype='datetime64[ns]', freq='D'} 10. Create 2D list to DataFrame lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]] In [] lists = [[1, 'asa', 22], [2, 'bbb', 25], [3, 'ccc', 24]] df = pd.DataFrame.from_records(lists) print(df) aaa 22 2 bbb 25 2 3 ccc 24