1. Write a Pandas program to convert Series of lists to one Series.

Sample Output:
Original Series of list
0 [Red, Green, White]
1 [Red, Black]
2 [Yellow]
dtype: object
One Series
0 Red
1 Green
2 White
3 Red
4 Black
5 Yellow
dtype: object

2. Write a python NLTK program to split the text sentence/paragraph into a list of words.

```
text = '''
Joe waited for the train. The train was late.
Mary and Samantha took the bus.
I looked for Mary and Samantha at the bus station.
'''
```

3. Create a result array by adding the following two NumPy arrays. Next, modify the result array by calculating the square of each element

arrayOne = numpy.array([[5, 6, 9], [21 ,18, 27]])
arrayTwo = numpy.array([[15 ,33, 24], [4 ,7, 1]])

4. Write a python program to extract word mention someone in tweets using @ from the specified column of a given DataFrame.

```
DataFrame: ({
  'tweets': ['@Obama says goodbye','Retweets for @cash','A political endorsement in
@Indonesia', '1 dog = many #retweets', 'Just a simple #egg']
  })
```

5. Write a NumPy program to compute the mean, standard deviation, and variance of a given array along the second axis.

array:
[0 1 2 3 8 5]