Part 1: Text Frequency analysis: Create a Python program that asks users to enter any number of texts they are interested in analysis and stores the texts in a list. A text can be a word such as “like”, or a phrase such as “I like it”. Then, the program will ask users to enter paragraphs (you may copy from a news article), and for each text in the list, display either “Not Found” message if the text does not exist in the paragraphs; otherwise display the number of times the text is found. (Hint: See examples on Slide # 18 to 24 of the Python Collections PowerPoint. You may use the “in” command and count method as explained on slide 18 and 19.)

Do a case-insensitive search by applying string’s lower() or upper() function to the search texts and the search paragraphs. You may arrange code as below:

```python
#Enter texts to search
continue=True
searchList=[]
While continue:
    Ask user to enter a text
    Add the text to the list
    Ask user whether to continue entering text

#Ask user to enter a paragraph

#Count the number of times each text is in the list

A sample run of the program:

through judicial proceedings and legislative investigative committees such as the House Select Committee.

Enter a text to analyze: trump
Do you want to enter another text?(y/n)y
Enter a text to analyze: biden
Do you want to enter another text?(y/n)y
Enter a text to analyze: capitol riot
Do you want to enter another text?(y/n)n
Enter paragraphs for analysis: WASHINGTON—Former President Donald Trump’s adviser Steve Bannon said he wouldn’t cooperate with the House Select Committee investigating the Jan. 6 assault on the U.S. Capitol, while President Biden rejected Mr. Trump’s attempt to assert executive privilege over records related to the attack.

Deeming the riot by Trump supporters while Congress was certifying Mr. Biden’s victory “a dark day in democracy,” White House press secretary Jen Psaki said Mr. Biden
believes in the importance of providing Congress and the public a complete understanding of the events “to prevent them from happening again.”

There are 2 trump
There are 1 biden
capitol riot is not found in the paragraphs

**Part 2:** Create a Monthly Payment Calculator webpage using HTML as shown below and use the formula given in assignment 1 to compute the monthly payment using JavaScript. The interest rate listbox should contain rates: 3%, 3.5%, 4%, 4.5%, 5%, 5.5% and 6%. For veterans, the annual rate is reduced by 0.5% Show the payment with a ‘$’ and two decimals.

```
Monthly Payment Calculator

Enter loan: 300000

Select rate: 4%

Select term:
- ☐ 10 year
- ☐ 15 year
- ☐ 30 year

☑ Veteran rate reduces 0.5%

Monthly payment: $1347.13

Compute Payment
```