BIS 420 PROGRAMMING FOR DATA SCIENCE

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Write a function called most_frequent that takes a string and prints the letters in decreasing order of frequency. Find text samples from several different languages and see how letter frequency varies between languages. Compare your results with the tables at http://en. wikipedia. org/ wiki/ Letter frequencies. Solution: http://thinkpython.com/code/ most_frequent.py.

```
from future import print function, division
def most frequent(text):
  letter count = get frequency dict(text)
  freq_pairs = []
  for char, count in letter count.items():
     freq pairs.append((count, char))
  freq pairs.sort(reverse=True)
  sorted letters = []
  for count, char in freq pairs:
     sorted letters.append(char)
  return sorted letters
def get frequency dict(text):
  freq dict = \{\}
  for char in text:
     freq dict[char] = freq dict.get(char, 0) + 1
  return freq dict
def load text(filepath):
  return open(filepath).read()
if name == ' main ':
  content = load text('/Users/prajaktapohare/Library/CloudStorage/OneDrive-
ILStateUniversity/BIS420/Week 12/emma.txt')
  result = most frequent(content)
  for letter in result:
     print(letter)
```

```
from __future__ import print_function, division
def most_frequent(text):
    letter_count = get_frequency_dict(text)
    freq_pairs = []
    for char, count in letter_count.items():
       freq_pairs.append((count, char))
    freq_pairs.sort(reverse=True)
    sorted_letters = []
    for count, char in freq_pairs:
       sorted_letters.append(char)
    return sorted_letters
def get_frequency_dict(text):
    freq_dict = {}
    for char in text:
       freq_dict[char] = freq_dict.get(char, 0) + 1
    return freq_dict
def load_text(filepath):
  return open(filepath).read()
if __name__ == '__main__':
    content = load_text('/Users/prajaktapohare/Library/CloudStorage/OneDrive-ILStateUniversity/BIS420/Week 12/emma.txt')
    result = most_frequent(content)
    for letter in result:
    print(letter)
```