Senpai Practice Questions Answer Key

1. ['we', 'will', 'all', 'do', 'great', 'on', 'the', 'midterm']   (Yes you will, have confidence)
2. False
3. E
4. No, fastest fix is to add "in userinput" behind each letter. So:
   if "a" in userinput or "e" in userinput or "i" in userinput or "o" in userinput or "u" in userinput:

Coding Exercises Answers

1.

```python
file = open("equipment.csv")
equipment_dict = {}
for line in file:
    equipments = line.split(",")
    if len(equipments) > 0:
        for equipment in equipments:
            equipment = equipment.lower().strip(" \n")
            if equipment in equipment_dict:
                equipment_dict[equipment] += 1
            else:
                equipment_dict[equipment] = 1



if len(equipment_dict) > 0:
    for key in equipment_dict:
        if equipment_dict[key] > 0:
            print(str(equipment_dict[key]) + " " + key)
else:
    print("No one brought anything, boo")
```

2.

```python
word = input("Please input a word: ")
substring = input("Please input a substring which you want to find in the
word: ")
if substring in word:
    for i in range (len(word)):
        if substring == word[i:i+len(substring)]:
            print("The substring is found on index " + str(i) + " to " +
str((i+len(substring)-1)) + " of the word")
else:
    print ("No instances of " + substring + " found in " + word)
```

3.

```python
playtime = int(input("Please enter how many numbers you would like to input: "))
score = 0
luckyguess = 0
for i in range(playtime):
    number = int(input("Please enter an integer no larger than 999: "))
    if number > 999:
        if i == playtime -1:
            print("You forfeit your last chance")
        else:
            print("You forfeit 1 chance please enter an integer no larger than 999")
    else:
        islucky = False
        fiveoverfour = False
        if number % 28 == 0:
            score += 100
            islucky = True
            luckyguess += 1
        if number % 5 == 0 and islucky == False:
            score += 2
            fiveoverfour = True
        if number % 4 == 0 and islucky == False:
            if fiveoverfour == False:
                score += 1
        if number % 7 == 0 and islucky == False:
            score += 7
        if number % 2 == 0 and islucky == False:
            if number % 6 == 0:
                score -= 2
            else:
                score += 1
        if 10 <= number <= 99 and islucky == False:
            score -= 5

if score >= 0:
    if luckyguess > 0:
        print("your score is: "+str(score) + " and you had " + str(luckyguess) + " lucky guesses!")
    else:
        print("your score is: "+str(score))
else:
    if luckyguess > 0:
```

```python
        print("Despite " + str(luckyguess) + " lucky guesses, your score is: "+str(0))
    else:
        print("your score is: "+str(0))
```