Assignment 2 - Module 2

Name :
USN:

1. **What is the difference between list and tuples ? CO2 - L2**

Ans.

2. **What do the following expressions evaluate to? CO2 - L2**
   - **'Remember, remember, the fifth of November.'.split()**
   - **'-'.join('There can be only one.'.split())**

3. **If a dictionary is stored in spam, what is the difference between the expressions 'cat' in spam and 'cat' in spam.values()? CO2 - L3**

4. **What is a shortcut for the following code? CO2 - L2**

```
if 'color' not in spam:
        spam['color'] = 'black'
```

5. **Fantasy Game Inventory CO2 - L3**

   You are creating a fantasy video game. The data structure to model the player's inventory will be a dictionary where the keys are string values describing the item in the inventory and the value is an integer value detailing how many of that item the player has. For example, the dictionary value {'rope': 1, 'torch': 6, 'gold coin': 42, 'dagger': 1, 'arrow': 12} means the player has 1 rope, 6 torches, 42 gold coins, and so on.

   Write a function named displayInventory() that would take any possible "inventory" and display it like the following:

```
Inventory:
12 arrow
42 gold coin
1 rope
6 torch
1 dagger
Total number of items: 62
```

Assignment 3 - Module 3
-- Start from a new page--
Name :
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1. **If numRegex = re.compile(r'\d+'), what will numRegex.sub('X', '12 drummers, 11 pipers, five rings, 3 hens') return? CO3 - L2**

2. **How would you write a regex that matches a number with commas for every three digits? It must match the following: CO3 - L3**
   • '42'
   • '1,234'
   • '6,368,745'
   but not the following:
   • '12,34,567' (which has only two digits between the commas)
   • '1234' (which lacks commas)

3. **What is the difference between the read() and readlines() methods? (Give code and explain) CO3 - L3**

4. **Mad Libs CO3 - L3**
   Create a Mad Libs program that reads in text files and lets the user add their own text anywhere the word ADJECTIVE, NOUN, ADVERB, or VERB appears in the text file. For example, a text file may look like this:
   The ADJECTIVE panda walked to the NOUN and then VERB. A nearby NOUN was unaffected by these events.
   The program would find these occurrences and prompt the user to replace them.
   Enter an adjective:
   silly
   Enter a noun:
   chandelier
   Enter a verb:
   screamed
   Enter a noun:
   pickup truck
   The following text file would then be created:
   The silly panda walked to the chandelier and then screamed. A nearby pickup truck was unaffected by these events.
   The results should be printed to the screen and saved to a new text file.

5. **What is the difference between the delete functions in the send2trash**

and shutil modules?CO3 - L3