

Survey #4

Name: _____

1: What is the different between opening a file in write mode ("w") compared to append mode ("a")?

2: Consider the following code segment:

```
def func1():  
    func2()          # 1  
    print("cpsc-217") # 2  
  
def func2():  
    print("survey")   # 3  
  
print("start")        # 4  
func1()               # 5  
print("end")          # 6
```

When this program runs, the statements will execute in the order: 4,5,1,3,2,6

3: Lists and dictionaries are both structures that allow us to organize a collection of related pieces of data. Describe two significant differences between these data structures.

[value, value, value]

{key: value, key: value}

Consider the following code segment:


```
a = input("Enter a number: ")  
print("A")  
  
try:  
    print("B")  
    b = 1.0 / float(a)  
    print("C")  
except:  
    print("D")  
  
print("E")
```

4: If the user enters 1.0 when prompted, the output from the program will be: _____

5: If the user enters 0.0 when prompted, the output from the program will be: _____

6: Which of the following statements is most correct?

- A. In a relational database, the schema describes the structure of the data in the database
- B. A primary key is a unique value associated with each row in a table
- C. Text files and databases are both viable options for managing large amounts of data
- ☒ D. Exactly two of the above answers are correct
- E. Answers a, b and c are all correct

Answer: 

7: Write a Python function that formats a string of digits into a telephone number with appropriate use of brackets, a space, and a dash. For example, if your function was provided the string "4031234567" then your function would return "(403) 123-4567". If the string provided to your function isn't exactly 10 digits long, or if the string contains any characters which are not a digit, then your function should return the empty string.