CPSC 1301, Computer Science I Quiz

Quiz 1b

This is a timed test. You have thirty minutes to complete the test. Your deliverable will be a plain text file, that is, an ASCII file with a `.txt` file extension. When you finish the test, upload your deliverable to Canvas. You deliverable should be a plain text file and named `quiz01b_lastname.txt`.

1   Short Answer

Answer each question with one word or a very short definition.

1. What does the *shebang* line do?

2. What is the *program header* for?

3. What is the purpose of the *import* section?

4. What is a *variable*?

5. What is a *function*?

6. Why do we write *user defined functions*?

7. What are function *inputs* called?

8. How do we get *outputs* from a function?

2   Coding

Implement (i.e., copy and paste) the following script, run it, redirect your output to a text file, and submit the output. Change the *program header* and the "main" function to the appropriate statements (that is, use your name instead of mine).

```
1   #! python
2   # Name: FirstProgram.py
3   # Author: Charles Carter
4   # Date: July 13, 2021
5   # Purpose: to illustrate how to write a progra in Python
6
7   # import statements go here
8
9   # user defined functions go here
10  def plainHello():
11      print("Hello from plainHello()")
12
13  def helloWithArg(arg):
14      print("Hello", arg, "from helloWithArg(name)")
15
16  def sumReturnVal():
17      lhs = 4
18      rhs = 5
19      sum = lhs + rhs
20      #return("The sum of", lhs, "and", rhs, "is", sum)
21      rv = "The sum of " + str(lhs) + " and " + str(rhs) + " is " + str(sum)
22      return(rv)
```

```
23
24   def sumWithArgAndRet(lhs, rhs):
25       return("The sum of " + str(lhs) + " and " + str(rhs) + " is " + str(lhs + rhs))
26
27
28   # this is the "main" function
29   if __name__ == "__main__":
30       print("Hello from main")
31       plainHello()
32       name = "Charles"
33       helloWithArg(name)
34
35       rv = sumReturnVal()
36       print(rv)
37
38       rv = sumWithArgAndRet(6, 7)
39       print(rv)
40       print(sumWithArgAndRet(24, 27))
```