

ASSIGNMENT 1: ELEMENTARY PROGRAMMING

1. Complete the code below:

```
In [ ]: pi = 3.14159
        diameter = 3

        # Create a variable called 'radius' equal to half the diameter

        # Calculate area of a circle

        # Display result
```

2. Write a program to create a string holding the text below. After you construct your string, print it.

Then he said "I don't know."

3. Complete the code below:

```
a = "+"
b = "-"
c = a + b
# Create the 45-character string below, store it in a variable called s
# "+-+-+-+-"
# print s and the length of s
print(s, "\n", len(s))
```

```
+-----+
45
```

4. Suppose the cover price of a book is \$24.95, but bookstores get a 40% discount. Shipping costs \$3 for the first copy and 75 cents for each additional copy. Write a program to find the total wholesale cost for 60 copies.
5. If I leave my house at 06:52:00 am and run 1 mile at an easy pace (00:08:15 per mile), then 3 miles at tempo (00:07:12 per mile) and 1 mile at easy pace again,

what time do I get home for breakfast? Write a program to solve this problem. (3 points)

6. Modify the following program to display the sales tax with two digits after the decimal point.

```
# Input purchase amount
purchaseAmount = eval(input("Enter purchase amount: "))
# Compute sales tax
tax = purchaseAmount * 0.06
print("Sales tax is", tax)
```