CS 141

MIDTERM 1 PRACTICE PROBLEMS

1. The function reads a piece of data that has been entered at the keyboard and returns that piece of data, as a string, back to the program. <pre>a. input</pre> <pre>b. output</pre> <pre>c. eval_input</pre> d. string_input	
2. In a print statement, you can set the argument to a space or empty string to stop the output from advancing to a new line. a. stop b. end c. separator d. newline	
<pre>3. What type of data is being stored into the variable sold in the following line of code? sold = 256.752 a. int b. float c. str d. boolean</pre>	
<pre>4. What type of data is being stored into the variable a in the following line of code? a = input("Enter a number: ") a. int b. float c. str d. boolean</pre>	
5. After the execution of the following statement, the variable price wil reference the value price = int(68.549) a. 68 b. 69 c. 68.55 d. 68.54	1
6. It is recommended that programmers should avoid using variables in a program when possible.a. localb. globalc. string globald. keyword	

Questions 7-10 refer to the following code (line numbers present for reference).

1 2 3 4	def	<pre>average(first, second, third): avg = (first + second + third) / 3 print("average is", avg)</pre>
5 6 7 8 9	def	<pre>main(): x = float(input("First number? ")) y = float(input("Second number? ")) z = float(input("Third number? ")) average(x, y, z)</pre>
11	mair	1()
the	func	tion for the function aver

- 7. Line 1 is rage.
 - a. call
 - b. header
 - c. block
 - d. parameter
- 8. In Lines 2 and 3, avg is a _____ variable to the function average.
 - a. global
 - b. constant
 - c. defined
 - d. local
- 9. In Line 1, first, second and third are _____ for the function average.
 - a. headers
 - b. returns
 - c. parameters
 - d. arguments
- 10. In Line 9, x, y, and z are _____ used when calling the average function from main.
 - a. headers
 - b. returns
 - c. parameters
 - d. arguments

11	. What is the result of the following Boolean expression, if x equals 5, y equals 3, and z equals 8?
	<pre>x < y or z > x a. True b. False c. 8 d. 5</pre>
12.	What is the result of the following Boolean expression, if x equals 5, y equals 3, and z equals 8? not (x < y or z > x) and y < z a. True b. False c. 8 d. 5
13.	The expression print(str(8) + str(9)) will output
14.	The result of the expression 11.3 + 6.6 is
15.	What is output for the following line of code?print(format(76.15854, '.3f'))
	A(n) refers to a sequence of well-defined steps to solve a problem.
17.	A(n) statement will execute one block of statements if its condition is true, or another block if its condition is false.
18.	A(n)controlled loop causes a statement or set of statements to repeat as long as a condition is true.
19.	are notes of explanation that document lines or sections of a program.

20. What is x after the following statements?

```
x = 2
x *= x + 3
```

21. What is the output for y?

```
y = 0
for i in range(2, 9):
    y += i
print(y)
```

22. What will be displayed after the following loop terminates?

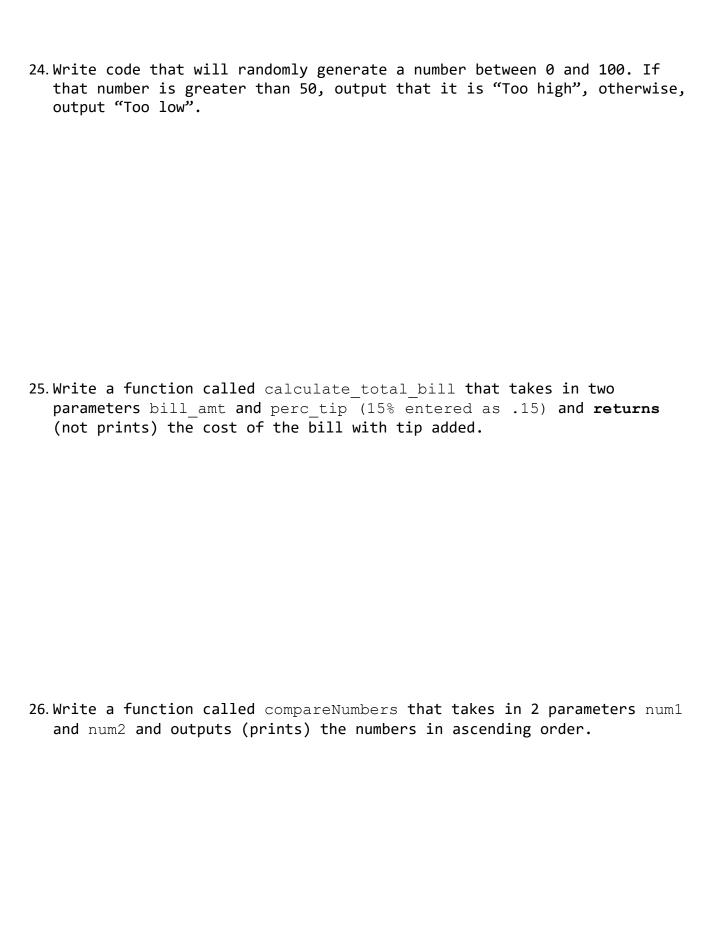
```
number = 25
isPrime = True
i = 2
while i < number and isPrime:
    if number % i == 0:
        isPrime = False

i += 1
print("i is", i, "isPrime is", isPrime)</pre>
```

23. The following code displays _____.

```
age = 19

if age < 18:
    print("Minor")
elif age >= 18 and age < 65:
    print("Adult")
else:
    print("Senior Citizen")</pre>
```



27. Given that n refers to a positive integer, write a loop to compute the sum of the squares of the first n counting numbers, and associate this value with total. Thus if n equals 4, your code should put 1*1 + 2*2 + 3*3 + 4*4 into total.

28. Write a loop that asks the user to enter a series of positive numbers. The user should enter a negative number to signal the end of the series. The program should output whether each number entered is even or odd.