Programming Assignment 3

Chapter 2

Name: Sergio Perez

\*\* Do not turn in Dirty Code. Do not use snippets from several attempts. You need to have one snip start to finish, all coding. If you just turn in the output it will be ½ wrong! Show your work.

1 Directions write the correct print function for each of the three scenarios directly under them:

Print the follow integer with a comma separator 2987765

print(format(2987765, ‘,d’))

A close up of a sign

Description automatically generated

Print the following integer in a field that is 9 spaces wide 2987765

print(format(2987765, ‘9d’))

A picture containing sitting

Description automatically generated

Print the following integer with a comma separator in a field that is 9 spaces wide 2987765

print(format(2987765, ’9,d’))

A close up of a sign

Description automatically generated

2 Directions: Use string concatenation method to break up the below string so the call to the print function will span multiple lines.

When you call the built-in format function, you pass two arguments to the function: a numeric value and a format specifier.

print(‘When you call the built-in format function, you pass two arguments to the function: ‘ +

‘a numeric value and a format specifier.’)

A close up of a screen

Description automatically generated

3 Directions: Re-write the below so it will print out with three subjects on the top row and three subjects on the bottom row. They need to be evenly tabbed. This is to be accomplished by writing ONE line of code !

Math English Science Art PhysEd History

A close up of a screen

Description automatically generated

4 Directions: Re-write the below line so it will print out in one line without spaces between

New York City

print('New', 'York', 'City', sep='')

A close up of a sign

Description automatically generated

5 Directions: Re-write the below line so that it will print broken into three lines without using a line continuation character.

“I went to the store and I bought several items today, a barometer, a meat thermometer, a thermostat and a really cute teddy bear for my cousin.”

print(‘’’”I went to the store and I bought several items today

a barometer, a meat thermometer, a thermostat

and a really cute teddy bear for my cousin.”’’’)

A screen shot of a computer

Description automatically generated

6 Directions: using the below variables write 4 statements, using 1 variable in each. All of the statements are to be written using the variable but displaying the expression when printed to the screen.

Favorite = blue dog = poodle yellow = roses weather = windy

print(‘My favorite color is’, favorite)

print('My sister always wanted a dog. She would have chosen a', dog)

print(yellow, ‘are my favorite flowers’)

print("Today’s weather is very", weather)

A screenshot of a cell phone

Description automatically generated

7 A Directions: you are writing and algorithm. An algorithm is followed IN ORDER when creating the program (Question 8 below). Make sure your algorithm variables make sense!

The HR department has asked you to help by writing a program that will make calculating the employees raises easier for them. They want to calculate a 2.5% raise for every employee. Create a program that will ask the HR department to enter the employees current salary and then displays the amount of the raise that employee will be getting.

B Directions: You are creating a Flowchart Reference the Flowchart Addendum & Pages 34-35

8 Directions: Do not combine display statements. Make sure to format decimal for two places. Print statements should use the “sentence with variable inserted that prints the expression method” Comments should be used. Declare & Initialize variables!

The HR department has asked you to help the by writing a program that will make calculating the employees raises easier for them. They want to calculate a 2.5% raise for every employee. Create a program that will ask the HR department to enter the employees current salary and then displays the amount of the raise that employee will be getting.

Write the program -- **they must match** the algorithm written in #7A **and follow** the flow chart in 7B

9 Do not combine display statements. Make sure to format decimal for two places. Print statements should use the “sentence with variable inserted that prints the expression method” Comments should be used. Declare & Initialize Variables!

The community church is having a bake sale and they are using your grandmother’s recipe. They will need to make a batch of cookies larger than the standard recipe. Create a program that will adjust your grandmother’s recipe. Here is the standard recipe. For 48 cookies you will need: 1 cup of sugar, 1.5 cups of butter, 2.50 cups of flour. The program should ask the user how many cookies they want to bake and then displays the number of cups of each ingredient necessary to make that number of cookies.

10 Directions: Make sure to format decimal for two places. Print statements should use the “sentence with variable inserted that prints the expression method” Comments, Declare, Initialize

You want a program that asks the user to enter the amount of a purchase and the desired number of payment instalments. The program should add 5 percent to the amount to get the total purchase amount, and then divide total purchase amount by the desired number of installments and then display messages telling the user the total amount of the purchase, total number of installments, and how much each installment will cost.