1. *Print a box like the one below*.
   1. Using one with one print function.
   2. Using four statement with one print function.
   3. Using four statement with four print function.

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1. Print a box like the one below.
   1. Using one statement with one print function.
   2. Using four statement with one print function.
   3. Using four statement with four print function.

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1. Print a triangle like the one below.
   1. Using one statement with one print function.
   2. Using four statement with one print function.
   3. Using four statement with four print function.

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1. Write a program that computes and prints the result of . It is roughly 0.1017.
2. Ask the user to enter a number. Print out the square of the number, but use the sep optional  
   argument to print it out in a full sentence that ends in a period. Sample output is shown  
   below.

Enter a number: 5  
The square of 5 is 25.

1. Ask the user to enter a number x. Use the sep optional argument to print out x, 2x, 3x, 4x,  
   and 5x, each separated by three dashes, like below.

Enter a number: 7  
7---14---21---28---35

1. Write a program that asks the user for a weight in kilograms and converts it to pounds. There  
   are 2.2 pounds in a kilogram.
2. Write a program that asks the user to enter three numbers (use three separate input statements). Create variables called total and average that hold the sum and average of the  
   three numbers and print out the values of total and average.
3. A lot of cell phones have tip calculators. Write one. Ask the user for the price of the meal and  
   the percent tip they want to leave. Then print both the tip amount and the total bill with the  
   tip included.
4. Write a program that asks the user to enter the width and length of a room. Once

the values have been read, your program should compute and display the area of the

room. The length and the width will be entered as floating point numbers. Include

units in your prompt and output message; either feet or meters, depending on which

unit you are more comfortable working with.

1. Create a program that reads the length and width of a farmer’s field from the user in

feet. Display the area of the field in acres.

Hint. There are 43,560 square feet in an acre

1. In many jurisdictions a small deposit is added to drink containers to encourage people

to recycle them. In one particular jurisdiction, drink containers holding one liter or

less have a $0.10 deposit, and drink containers holding more than one liter have a

$0.25 deposit.

Write a program that reads the number of containers of each size from the user.

Your program should continue by computing and displaying the refund that will be

received for returning those containers. Format the output so that it includes a dollar

sign and always displays exactly two decimal places.

1. The program that you create for this exercise will begin by reading the cost of a meal

ordered at a restaurant from the user. Then your program will compute the tax and

tip for the meal. Use your local tax rate when computing the amount of tax owing.

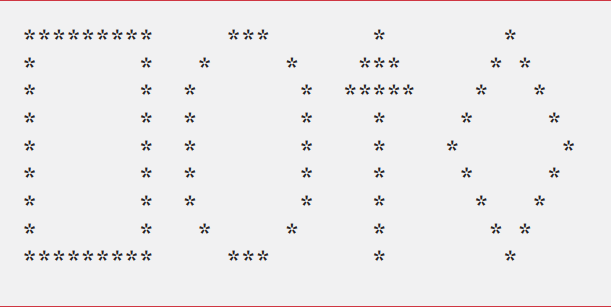
Compute the tip as 18 percent of the meal amount (without the tax). The output from

your program should include the tax amount, the tip amount, and the grand total for

the meal including both the tax and the tip. Format the output so that all of the values

are displayed using two decimal places.

1. Given the algebraic equation,l,; ax3 + 7, which of the following, if any, are correct Python statements for this equation?
2. y = a \* x \* x \* x + 7
3. y = a \* x \* x \* (x \* 7)
4. y = (a \* x) \* x \* (x +7)
5. y = (a\*x) \* x \* x + 7
6. y = a \* (x \* x \* x) + 7
7. y = a \* x \*(x \*x+7)
8. State the order of evaluation of the operators in each of the following Python statements and show the value of x after each statement is performed.
9. x = 7 + 3 \* 6 / 2 – 1
10. x = 2 % 2 + 2 \* 2 - 2 / 2
11. x = ( 3 \* 9 \* ( 3 + ( 9 \* 3 / ( 3 ) ) ) )
12. Write a program that asks the user to enter two integers, obtains the numbers from the user, then prints the larger number followed by the words  
    "is larger." If the numbers are equal, print the message "These numbers are equal."
13. Write a program that inputs three integers from the keyboard and prints the sum, average, product, smallest and largest of these numbers. The  
    screen dialog should appear as follows:
14. Write a program that reads in the radius of a circle as an integer and prints the circle's diameter, circumference and area. Use the constant value 3.14159 for π. Do all calculations in output statements.
15. Write a program that prints a box, an oval, an arrow and a diamond as follows:



1. Write a program that reads in five integers and determines and prints the largest and the smallest integers in the group. Use only the programming techniques you learned in this chapter.

1. Write a program that reads an integer and determines and prints whether it is odd or even.
2. Write a program that reads in two integers and determines and prints if the first is a multiple of the second.
3. Write a program that inputs a five-digit integer, separates the integer into its individual digits and prints the digits separated from one another by three spaces each. If the user types in 42339, the program should print:

4 2 3 3 9

1. Using only the techniques you learned in this chapter, write a program that calculates the squares and cubes of the integers from 0 to 10 and uses tabs to print the following neatly formatted table of values:

integer square cube  
0 0 0  
1 1 1  
2 4 8  
3 9 27  
4 16 64  
5 25 125  
6 36 216  
7 49 343  
8 64 512  
9 81 729  
10 100 1000

1. Develop a program that reads a four-digit integer from the user and displays the sum  
   of the digits in the number. For example, if the user enters 3141 then your program  
   should display 3+1+4+1=9.
2. You are asked to ensure that the first and last names of people begin with a capital letter in their passports. For example, alison heck should be capitalised correctly as Alison Heck.
3. Given an integer, *17*, print the following values for each integer *i*from 1 to 17:
   1. Decimal
   2. Octal
   3. Hexadecimal (capitalized)
   4. Binary

1 1 1 1

2 2 2 10

3 3 3 11

4 4 4 100

5 5 5 101

6 6 6 110

7 7 7 111

8 10 8 1000

9 11 9 1001

10 12 A 1010

11 13 B 1011

12 14 C 1100

13 15 D 1101

14 16 E 1110

15 17 F 1111

16 20 10 10000

17 21 11 10001

Input three different integers: 13 27 14  
Sum is 54  
Average is 18  
Product is 4914  
Smallest is 13  
Largest is 27