

Programming with Python: 2



1) Write a program that asks you to input your favourite restaurant and favourite food then prints the text:

The best restaurant is _____ and the best food is _____

2) Write a program that multiplies two numbers. The program should ask the user to input the two numbers and then display the answer on the screen.

Alter the program to also add, subtract and divide the two numbers.

3) Write a program that asks the user to enter their name and then displays the name 50 times across the screen. Amend the program to ask the user how many times they want their name displayed, input the number and produce the display on the screen.

*Hint: print("Fred"*3) will display "FredFredFred".*

4) What is the square of a number? Write a program that asks the user to enter a number and then displays the square and cube of that number.

5) What is the area of a rectangle? Write a program that asks the user to enter the length and width of a rectangle. It then calculates the area and perimeter of the rectangle. Use the formulas:

Area = length * width

Perimeter = (2 * length) + (2 * width)

6) What time will you arrive? Write a program that asks the user to enter the distance you want to travel (in miles) and the speed you are travelling (in miles per hour). The program should then display how long it will take you. Use the formula: Time = distance / speed

Sample run:

Enter the distance (miles): 100

Enter your speed (miles per hour): 50

It will take 2 hours

7) How much do the apples cost? Apples cost £1.35 per kilogram. Write a program that asks you to enter the weight of the apples and displays how much they will cost. Hint: use the float command to convert the input string into a float (real) number.

Try this command: print("cost of apples £{0:.2f}".format(cost))

What does it do?

8) The exchange rate between pounds and euros is 1.18. Write a program that asks the user to input the number of pounds and displays the answer in euros.

9) How many seconds in 10 days? Write a program that ask the user to input the number of days and then displays the number of seconds in those days.

Extension: Goto <http://inventwithpython.com/chapter2.html> and try out the examples.