1. Write a Python program that finds all numbers that are divisible by 7 but not a multiple of 5 between2000 and 3201 (included).

A screenshot of a computer

Description automatically generated with medium confidence

1. Write a function in Python that generates a dictionary with the format *i* : *i*∗*i* given a certain integer number n. For instance, if the function is called on 3, then the dictionary should have the following format: 1: 1, 2: 4, 3: 9.

Graphical user interface, text

Description automatically generated

1. Write a function in Python that takes in parameters name and age. The function should return amessage (it can be a print statement) containing the year when that person with that age will turn (or turned) 100 years old.

Text

Description automatically generated

1. Write a function in Python that takes in as input a certain number and then prints out a list of all thedivisors of that number.

Graphical user interface, text

Description automatically generated

1. Write a function in Python that takes in a list (example: a = [1, 4, 9, 16, 25, 36, 49, 64, 81, 100]) asinput and returns a new list that has only the even elements of this list in it.

Text

Description automatically generated

1. Given 2 lists, a and b, containing integers, not necessarily with the same length, Write a function inPython that returns a list that contains only the elements that are common between the lists a and b (without duplicates).

Text

Description automatically generated

1. Write a function in Python that takes in a dictionary and returns the sum of all the values (not keys) in a dictionary.

Text

Description automatically generated

1. Given a number n, write a function in Python to determine if n is a prime.

Text

Description automatically generated

1. Given a string, write a function in Python that takes in a string and: if the length of the string is atleast 3, adds ”ing” to its end. But, if it already ends in ”ing”, adds ”ly” instead. And if the string length is less than 3, leaves it unchanged. Return the resulting string.

Text

Description automatically generated

1. Write a function in Python that takes a character and returns its ASCII value.

Graphical user interface, text, application

Description automatically generated

1. Write a function in Python that takes in an integer n and returns the first n Fibonnaci numbers.

Graphical user interface, text, application, email

Description automatically generated

1. Write a Python script that implement a function that takes as input three variables, and returns thelargest of the three. Do this without using the Python *max*() function! Hint: Use if statements.

Text

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