Activities 2: August 28, 2019

Expressions:

Write a script that prints out the divisor and the remainder of the integer division of 123456789 by 98765. You can print out several entities by making them argument to the print function separated by commas.

Types:

We know three main types: int, float, and str. A simple programming pattern is a script that converts measurements between different measuring systems. It asks the user for input, (using the input function), converts the result of input — a string — to a numerical value, usually float, uses an algebraic formula to convert between measurement systems, and then prints out the new value.

Here is an example:

```
user = input("Enter a length in yards: ")
yards = float(user)
meters = yards*0.9144
print("The length is", meters, "meters")
```

You can save space by combining some of these lines.

Write programs that convert:

- · Centimeters to inches
- Inches to millimeters
- Temperatures in Rankine to temperatures in Fahrenheit
- Forces in slugs to forces in Newton
- Gas consumption of a car from liters per kilometer to miles per gallon

Write a script that takes an integer such as 987, converts it into a string, then triplicates the string, e.g. 987987987, then divides the string by 3 rounding down to obtain an integer, obtaining in the example 329329329.