FUNCTIONS

Q1. Write a function that takes first & last name and then it greets the user using his full name.

Q2. Write a function that adds two numbers (input by user) and returns the sum of two numbers.

Q3. **Calculator:**
Write a function that takes three arguments num1, num2 & operator & compute the desired operation. Return and show the desired result in your screen.

Q4. Write a function that squares its argument.

Q5. Write a function that computes factorial of a number.

Q6. Write a function that take start and end number as inputs & display counting in your screen.

Q7. Write a function that computes hypotenuse of a right angle triangle by following the steps given below.
$Hypotenuse^2 = Base^2 + Perpendicular^2$

a) Take base and perpendicular as inputs.
b) Create a function calculateSquare() for calculating and returning square of a number.
c) Create a function calculateHypotenuse() for calculating hypotenuse of a right angle triangle. Make use of the calculateSquare() function.

Q8. Write a function that calculates the area of a rectangle.
A = width * height

Pass width and height in following manner:
a) Arguments as values
b) Arguments as variables

Q9. Write a function that computes power of a number. E.g. 2^3 is 8.

Q10. Write a function which accepts an argument and returns the type.

Questions adapted from: https://github.com/LearningAppDevelopment/Assignments/wiki

Q11. The Age Calculator

Forgot how old you are? Calculate it!

a) Write a function named calculateAge that:
   - Takes 2 arguments: birth year, current year.
   - Calculates the 2 possible ages based on those years.
   - Outputs the result to the screen like so: "You are either NN or NN"

b) Call the function three times with different sets of values.

The Age Calculator

Current Year : 2015
Birth Year : 1994

They are either 21 or 22 years old

The Age Calculator

Current Year : 2015
Birth Year : 1997

They are either 18 or 19 years old

Q12. The Temperature Converter

It's hot out! Let's make a converter based on the steps here.

a) Create a function called celsiusToFahrenheit:
   - Store a celsius temperature into a variable.
   - Convert it to fahrenheit and output "NN°C is NN°F".

b) Create a function called fahrenheitToCelsius:
   - Now store a fahrenheit temperature into a variable.
   - Convert it to celsius and output "NN°F is NN°C."

Q13. The Lifetime Supply Calculator

Ever wonder how much a "lifetime supply" of your favorite snack is? Wonder no more!

a) Write a function named calculateSupply that:
   - Takes 2 arguments: age, amount per day.
   - Calculates the amount consumed for rest of the life (based on a constant max age).
   - Outputs the result to the screen like so: "You will need NN to last you until the ripe old age of X"

b) Call that function three times, passing in different values each time.

The Lifetime Supply Calculator

Favorite Snack : Oreo biscuits
Current Age : 15
Estimated Maximum Age : 85
Amount of snacks per day : 2

You will need 140 Oreo biscuits to last you until the ripe old age of 85

The Lifetime Supply Calculator

Favorite Snack : Oreo biscuits
Current Age : 20
Estimated Maximum Age : 85
Amount of snacks per day : 2.5

You will need 162 Oreo biscuits to last you until the ripe old age of 85

Q14. The Geometrizer

Create 2 functions that calculate properties of a circle, using the definitions here.

a) Create a function called calcCircumference:
   - Pass the radius to the function.
   - Calculate the circumference based on the radius, and output "The circumference is NN".

b) Create a function called calcArea:
   - Pass the radius to the function.
   - Calculate the area based on the radius, and output "The area is NN".