Python Keywords and Functions:

## https://docs.python.org/3/library/functions.html

# this imports a library of functions useful for getting random numbers

from random import \*

for example, this assigns a random number 1-10 to a new variable called *randNum*

randNum = randint(1, 10)

# This prints the string “Hello World!”

print("Hello World!")

# input captures the string entered by a user at the command prompt

# We’re assigning it to a variable named yourName.

yourName = input("Enter your name: ")

# This assigns a value of True to a variable called *isNumeric*.

isNumeric = True

# This continues asking for input until the user enters a number

while number1.isdigit() == False:

number1 = input("Not a number. Please enter a number: ")

# This converts user input to a number

If userInput.isdigit() == True:

number1 = int(userInput)

# this is an example of an IF statement that compares two numbers:

if num1 > num2:

# this is an example of a function to print a greeting:

def PrintName(firstName):

print("Hi there " + firstName)

# this is an example of a function that *returns* a value:

def GetGreeting(firstName):

return "Hi there " + firstName

# this is an example of how to call a function:

PrintName(“Bubba Gump”)

# this is an example of an IF statement that does something when true:

if firstName == "Bubba":

print("Your name is Bubba!")

# this is an example of how to convert a string to a number:

aString = "42"

aNumber == int(aString)

# Programming challenge:

Create a game in Python that asks the user to guess a random number between 1 and 10.

The program will print a hint for the user to guess higher or lower until they guess the random number.

It would be a good idea to create (and call):

* a function to start a new game
* a function that evaluates the user’s guessed number and returns *True* if they guessed correctly, *False* (and maybe print a higher/lower message) if they didn’t.