Functions- why? – in projects we will have big modules so we will break them into small pieces and work on them. To use the same set of statements/ reuse them again and again we will use functions

2 steps involved here: 1) define a function (def) 2) Call it

Ex:

def greet(): # here the def is to create a function and greet is the name of the function

print(“hello”)

print(“good morning”)

Let’s run it and see what is the output

Q : now let’s write a function to add two numbers?

Q:

def add(x,y):

c = x + y

return c # here we are expecting something in return, which we will store and use it for any other purposes like store it somewhere or post it on facebook etc..

result = add(4,5)

print(result)

now what if we need to return 2 values, we will use the code as shown below.

Graphical user interface, text, application

Description automatically generated

Task for bunny: pass by value

Task for rishi : pass by reference

--today’s challenge finding the prime factors for a given number.

It should take **integer** value as input

Output should be list of prime factors: x,y,….

We can create a function and give an number as input which should display us the prime numbers

def is\_it\_a\_prime(num):

      num = int(input('enter the number: '))

      for i in range(2,num):

            if num % i == 0:

                  print('not prime')

                  break

      else:

            print('it is a prime number')

is\_it\_a\_prime(7)

def get\_initial(name):

    initial = name[0:1].upper()

    return initial

# ask for someone's name and return initials

first\_name = input('Enter your first name: ')

first\_name\_initial = get\_initial(first\_name)

print('Your initial is: ' + first\_name\_initial)