```
In [1]:
            def say_hello():
                 print("Hello")
  In [2]:
            say_hello()
            Hello
           Lets say we had a more complex code,
  In [3]:
            def say_hello():
                 print("Hello")
                 print("how")
                 print("are")
                 print("you?")
  In [4]:
            say hello()
            Hello
            how
            are
            you?
 In [10]:
            def say_hello(name):
                 print(f'Hello {name}')
 In [11]:
            say_hello('Keegan')
            Hello Keegan
 In [12]:
            def say hello(name='Default'):
                 print(f'Hello {name}')
 In [16]:
            say hello()
           Hello Default
           Pictured above, we can set a default value for a function, instead of throwing an error when no
           input is provided.
           Now, lets utilize the RETURN instead of PRINT
           So what is the difference between return and print?
           The return keyword allows you to actually save the result of the output of a function as a variable.
           The print() function simply displays the output to you, but doesnt save it for future use.
 In [17]:
            def add num(num1,num2):
                 return num1+num2
 In [18]:
            add num(10,20)
 Out[18]:
Loading [MathJax]/extensions/Safe.js
```

However, we can actually assign it to the 'result' variable In [19]:  $result = add_num(10,20)$ In [20]: result 30 Out[20]: In [21]: def print\_result(a,b): print(a+b) In [22]: def reurn\_result(a,b): return a+b In [23]: print\_result(10,20) 30 In [25]:  $result = add_num(10,20)$ result 30 result = print\_result(10,20) 30 result def add num(num1,num2): return num1+num2  $result = add_num(10,20)$ result 30 def print\_result(a,b): print(a+b)

```
In [27]:
 Out[27]:
 In [29]:
 In [31]:
 In [33]:
 In [34]:
 In [35]:
 Out[35]:
 In [36]:
 In [37]:
             def return result(a,b):
                 return a+b
Loading [MathJax]/extensions/Safe.js (a,b):
```

```
print(a+b)
In [39]:
          print_result(10,20)
          30
In [40]:
          def return result(a,b):
               return a+b
In [41]:
           return_result(10,20)
          30
Out[41]:
In [42]:
           result = return_result(10,20)
In [43]:
           result
          30
Out[43]:
In [44]:
          def myfunc(a,b):
               print(a+b)
               return a+b
In [45]:
           result = myfunc(10,20)
          30
         If we wanted to check the data types, we can do so by performing the following:
In [47]:
          def sum numbers(num1,num2):
               return num1+num2
In [48]:
          sum_numbers(10,20)
          30
Out[48]:
In [49]:
          sum numbers('10','20')
          '1020'
Out[49]:
         Pictured above, we set the values as string, which is not what we want. We need user input
         validation
 In [ ]:
```