Raul Rodriguez
Python intro to Data Science
Lab 2

```
lab2_1.py > ...
      import myFunctions
      a = float(input("Enter a number "))
      b = float(input("Enter a number "))
      while True:
          choice = input("choose what operation you would like to perform ")
          if choice=='+':
              myFunctions.addition(a,b)
          elif choice=='-':
              myFunctions.subtraction(a,b)
          elif choice=='*':
11
              myFunctions.multiplication(a,b)
12
          elif choice=='/':
13
              myFunctions.division(a,b)
14
          else:
15
              continue
```

```
/usr/local/bin/python3 /Users/raulrodriguez/Documents/WorkSpaceVSPython/Lab2_1.py
raulrodriguez@Rauls-MacBook-Air WorkSpaceVSPython % /usr/local/bin/python3 /Users/raulrodriguez/Documents/WorkSpaceVSPython/Lab2_1.py
Enter a number 2
Enter a number 4
choose what operation you would like to perform /
0.5
choose what operation you would like to perform +
6.0
choose what operation you would like to perform *
8.0
choose what operation you would like to perform -
-2.0
choose what operation you would like to perform [
```

```
? Lab2_2.py > ...
      def factorialFunction(denominator, factorial):
          while factorial>0:
              factorial-=1
              if factorial==0:
                   denominator*=factorial+1
 6
              else:
                   denominator*=factorial
 8
          return denominator
      sum = 1
10
      numerator = 1
      for i in range(1,11):
11
12
          denominator=i
          factorial = denominator
13
          denominator = factorialFunction(denominator, factorial)
14
15
          sum = sum+(numerator/denominator)
          print("sum",sum)
16
         #print(sum)
17
```

```
raulrodriguez@Rauls-MacBook-Air WorkSpaceVSPython % /usr/local/bin/python3 /Users/raulrodriguez/Documents/WorkSpaceVSPython/Lab2_2.py sum 2.0 sum 2.5 sum 2.66666666666665 sum 2.708333333333333 sum 2.716666666666663 sum 2.718555555555554 sum 2.7182539682539684 sum 2.71827876984127 sum 2.71827876984127 sum 2.7182815255731922 sum 2.7182818011463845 raulrodriguez@Rauls-MacBook-Air WorkSpaceVSPython %
```

```
def myMinimum(a=8,b=2,c=10):
          if a<b and a<c:</pre>
 3
              minimum = a
          elif b<a and b<c:</pre>
              minimum = b
 6
          elif c<a and c<b:
              minimum = c
          return minimum
8
9
      a = 4
     b = 7
10
11
     c = 34
     minimum = myMinimum()
12
      print(minimum)
13
```

- s/raulrodriguez/Documents/WorkSpaceVSPython/Lab2_3.py
- raulrodriguez@Rauls-MacBook-Air WorkSpaceVSPython %

```
• raulrodriguez@Rauls-MacBook-Air WorkSpaceVSPython % /usr/local/bin/python3 /Users/raulrodriguez/Documents/WorkSpaceVSPython/Lab2_4.py
Enter a String Raul Rodriguez IS COOL
R
R
R
I
S
C
0
0
7
raulrodriguez@Rauls-MacBook-Air WorkSpaceVSPython %
```