Raul Rodriguez Python programming for data science

Exercise 1

```
♦ HW1_1.py > ...
          print("factorial of input number using for loop is ",factorial)
      def myFactorialWIthWhileLoop(a):
          factorial=1
          while True:
              if(a==0):
11
12
                  break
              factorial*=(a)
13
              a=a-1
              print(factorial)
          print("factorial of input number using while loop is ",factorial)
      a=int(input("Enter a number"))
      myFactorialWIthForLoop(a)
19
      myFactorialWIthWhileLoop(a)
```

```
/usr/local/bin/python3 /Users/raulrodriguez/Documents/WorkSpaceVSPython/
raulrodriguez@Rauls-MacBook-Air WorkSpaceVSPython % /usr/local/bin/pytho
Enter a number5
5
20
60
120
factorial of input number using for loop is 120
5
20
60
120
factorial of input number using for loop is 120
5
20
60
120
factorial of input number using while loop is 120
```

Exercise 2

```
PROBLEMS OUTPUT
                      DEBUG CONSOLE
                                       TERMINAL
                                                  JUPYTER
3.1417853689474184
3.1413999753642217
3.1417852946976192
3.1414000495854166
3.141785220505012
3.1414001237494524
3.141785146369531
3.141400197856395
3.1417850722911105
3.14140027190631
3.1417849982696837
3.1414003458992634
3.141784924305186
raulrodriguez@Rauls-MacBook-Air WorkSpaceVSPvthon %
```