Data Science Mathematics

Session 1 - Introduction

In-Class Activity

Read the documentation on the Python math library: https://docs.python.org/3.6/library/math.html (https://docs.python.org/3.6/library/math.html)

Answer each question below.

1) Import the math library.

In [ ]:
```
import math
```

Calculate the following, using the apppropriate Python functions:

2) EXP(100)

In [ ]:
```
math.frexp(100)
```

3) 5!

In [ ]:
```
math.factorial(5)
```

4) ln(0.5)

In [ ]:
```
math.loglp(0.5)
```

5) log(0.5) #Note: this is log base 10.

In [ ]:
```
math.log10(0.5)
```

6) sqrt(121)

In [ ]:
```
math.sqrt(121)
```

The print function is used to print a result.

Example: print('Hello world!')

```
Hello world
```

7) Print the value of the mathematical constant pi to the maximal precision allowed in Python.

In [ ]:
```
print(math.pi)
```

***Now save your output. Go to File -> Print Preview and save your final output as a PDF. Turn in to your Instructor, along with any additional sheets.