😊 Advanced Numbers

1. In this lab, we will explore several additional representations of numbers in Python.
2. Using the function hex(), you can convert numbers into a hexadecimal format.

```
[1]: hex(246)

[1]: '0xf6'

[2]: hex(512)

[2]: '0x200'
```

3. Using the function bin() you can convert numbers into their binary format.

```
[3]: bin(1234)

[3]: '0b10011010010'

[4]: bin(128)

[4]: '0b10000000'

[5]: bin(512)

[5]: '0b1000000000'
```

4. The function pow() takes two arguments, equivalent to x^y. With three arguments it is equivalent to (x^y)%z, but may be more efficient for long integers.

```
[6]: pow(3,4)

[6]: 81

[7]: pow(3,4,5)

[7]: 1
```

5. The function abs() returns the absolute value of a number. The argument may be an integer or a floating-point number. If the argument is a complex number, its magnitude is returned.

```
[8]: abs(-3.14)

[8]: 3.14

[9]: abs(3)

[9]: 3
```

6. The function round() will round a number to a given precision in decimal digits (default 0 digits). It does not convert integers to floats.

```
[10]: round(3,2)

[10]: 3

[11]: round(395,-2)

[11]: 400

[12]: round(3.1415926535,2)

[12]: 3.14
```