

# Advanced Python Objects Test

## Advanced Numbers

**Problem 1: Convert 1024 to binary and hexadecimal representation:**

**Problem 2: Round 5.23222 to two decimal places**

## Advanced Strings

**Problem 3: Check if every letter in the string s is lower case**

```
In [1]: s = 'hello how are you Mary, are you feeling okay?'
```

**Problem 4: How many times does the letter 'w' show up in the string below?**

```
In [2]: s = 'twywywtwywbwhsjhwuwshshwuwwwjddid'
```

## Advanced Sets

**Problem 5: Find the elements in set1 that are not in set2:**

```
In [3]: set1 = {2,3,1,5,6,8}
        set2 = {3,1,7,5,6,8}
```

**Problem 6: Find all elements that are in either set:**

## Advanced Dictionaries

**Problem 7: Create this dictionary: {0: 0, 1: 1, 2: 8, 3: 27, 4: 64} using dictionary comprehension.**

## Advanced Lists

**Problem 8: Reverse the list below:**

In [4]: `l = [1,2,3,4]`

**Problem 9: Sort the list below**

In [5]: `l = [3,4,2,5,1]`

## Great Job!