# **Basic Python**

# 1. Split this string

```
In []: s = "Hi there Sam!"

In []: s.split()
```

2. Use .format() to print the following string.

Output should be: The diameter of Earth is 12742 kilometers.

3. In this nest dictionary grab the word "hello"

## Numpy

```
In [ ]: import numpy as np
```

- 4.1 Create an array of 10 zeros?
- 4.2 Create an array of 10 fives?

```
In []: array = np.zeros(10) print(array)
[0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]

In []: array = np.ones(5)*5
```

5. Create an array of all the even integers from 20 to 35

```
In [ ]: array = np.arange(20,36,2)
```

6. Create a 3x3 matrix with values ranging from 0 to 8

```
In [ ]: array = np.arange(0,9).reshape(3,3)
```

7. Concatinate a and b

a = np.array([1, 2, 3]), b = np.array([4, 5, 6])

```
In [ ]:
    a= np.array([1,2,4])
    b= np.array([4,5,6])
    c = np.concatenate((a,b))
```

### **Pandas**

#### 8. Create a dataframe with 3 rows and 2 columns

## 10. Create 2D list to DataFrame

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