**Basic Python**

**1. Split this string**

In [ ]:

s **=** "Hi there Sam!"

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

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

In [ ]:

planet **=** "Earth"

diameter **=** 12742

In [ ]:

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

In [ ]:

d **=** {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]}

In [ ]:

**Numpy**

**import** numpy **as** np

**4.1 Create an array of 10 zeros?**

**4.2 Create an array of 10 fives?**

In [ ]:

In [ ]:

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

In [ ]:

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

In [ ]:

**7. Concatenate a and b**

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

**Pandas**

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

In [ ]:

**import** pandas **as** pd

In [ ]:

**9. Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023**

In [ ]:

**10. Create 2D list to DataFrame**

lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]