# -\*- coding: utf-8 -\*-

"""Assignment\_1.ipynb

Automatically generated by Colaboratory.

Original file is located at

    https://colab.research.google.com/drive/1HslpdoZin5VauQRh63mut\_vFZvM1Tsjd

# Basic Python

## 1. Split this string

"""

s = "Hi there Sam!"

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

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

"""

planet = "Earth"

diameter = 12742

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

"""

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

"""# Numpy"""

import numpy as np

"""## 4.1 Create an array of 10 zeros?

## 4.2 Create an array of 10 fives?

"""

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

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

"""## 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

"""

import pandas as pd

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

"""## 10. Create 2D list to DataFrame

lists = [[1, 'aaa', 22],

         [2, 'bbb', 25],

         [3, 'ccc', 24]]

"""

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