## **ASSIGNMENT 1**

### **B.VANDANA**

# **Basic Python**

#### 1. Split this string

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

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

```
In [33]:
S=np.arange(20,35,2)
S
Out[33]:
array([20, 22, 24, 26, 28, 30, 32, 34])
```

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

#### 7. Concatinate a and b

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

```
In [35]:
a=np.array([1,2,3])
b=np.array([4,5,6])
np.concatenate((a,b),axis=0)
Out[35]:
array([1, 2, 3, 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

```
In [38]:
p = pd.date range(start='1-1-2023',end='10-2-2023')
for val in p:
  print(val)
2023-01-01 00:00:00
2023-01-02 00:00:00
2023-01-03 00:00:00
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```

#### 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]]

In [40]:

df = pd.DataFrame(lists)

df

Out[40]:

0  1  2

1  2  bbb  25

2  3  ccc  24
```