# Assignment -1

## **Python Programming**

Assignment Date	19 September 2022
Student Name	Pradeepa J
Maximum Marks	2 Marks

## Question-1:

Split this string

#### **Solution:**

```
s = "Hi there Sam!"
words = s.split(' ')
print(words)
```

## Question-2:

Use .format() to print the following string

## **Solution:**

```
planet = "Earth"
diameter = 12742
txt = "The diameter of {planet} is {diameter} kilometers.".format(planet = "Earth
print(txt)
```

The diameter of Earth is 12742 kilometers.

# Question-3:

In this nest dictionary grab the word "hello"

### **Solution:**

```
d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]]]]
d1=d['k1'][3]
```

d2= d1['tricky'][3]

```
d2= d1['tricky'][3]
```

```
d2['target'][3]
```

<sup>&#</sup>x27;hello'

# Question-4:

# Create an array of 10 zeros? Create an array of 10 fives?

**Solution:** 

```
arr=np.zeros(10)

arr1=np.ones(10)*5

print(arr)

[0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]

print(arr1)

[5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.]
```

# Question-5:

Create an array of all the even integers from 20 to 35 Solution:

```
arreven=np.arange(20,35,2)

print(arreven)

[20 22 24 26 28 30 32 34]
```

# Question-6:

Create a 3x3 matrix with values ranging from 0 to 8 Solution:

```
matrix=np.arange(0,9).reshape(3,3)

print(matrix)

[[0 1 2]
  [3 4 5]
  [6 7 8]]
```

# Question-7:

# Concatinate a and b

## **Solution:**

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

print(concat)

[1 2 3 4 5 6]
```

# Question-8:

## Create a dataframe with 3 rows and 2 columns

#### **Solution:**

```
import pandas as pd

lists = {
    "a":["1","10"],
    "b":["2","20"],
    "c":["3","30"]
    }

pd.DataFrame(lists)

a b c

0 1 2 3

1 10 20 30
```

## Question-9:

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

```
Solution:
```

```
from datetime import date
start_date = date(2023,1,1)
end_date = date(2023,2,11)
[date.fromordinal(i) for i in range(start_date.toordinal(), end_date.toordinal())
```

#### Question-10:

## **Create 2D list to DataFrame**

## **Solution:**

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

df = pd.DataFrame(lists,columns = ['Sno','Name','Age'])
print(df)

Sno Name Age
0  1  aaa  22
1  2  bbb  25
2  3  ccc  24
```