## PYTHON PROGRAMMING

## ASSIGNMENT-1

ASSIGNMENT DATE	13 September 2022
STUDENT NAME	DEEPA S
STUDENT REGISTRATION NO	820419106009
MAXIMUM MARK	2mark

```
Basic Python

1. Split this string

[] s = "Hi there Sam!"

[] s.split()

['Hi', 'there', 'Sam!']
```

•	2. ا	Use .format() to print the following string.
	Out	tput should be: The diameter of Earth is 12742 kilometers.
		planet = "Earth" diameter = 12742
18		
		<pre>print("The diameter of {} is {} kilometers.".format(planet,diameter))</pre>
		The diameter of Earth is 12742 kilometers.

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

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

[ ] d['k1'][3]['tricky'][3]['target'][3]

'hello'
```

```
5. Create an array of all the even integers from 20 to 35
[ ] array=np.arange(20,35,2)
    print("Array of all the even integers from 20 to 35 ")
    print(array)

Array of all the even integers from 20 to 35
[20 22 24 26 28 30 32 34]
```

```
Q ▼ 7. Concatenate a and b

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

a=np.array([4, 5, 6])
b=np.array([4, 5, 6])
p-array([4, 5, 6])

p-array([1, 2, 3, 4, 5, 6])
```

```
Pandas
* 8. Create a dataframe with 3 rows and 2 columns
[] import pandas as pd
iste[('alexa', 20),['alice', 21],['clara', 22]]
df=pd. Dataframe(list, columns ('name', 'age'))
print(df)
Cr name age
0 alexa 20
1 alice 21
2 clara 22
```

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

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

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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
```