ASSIGNMENT-1

TEAM ID	**PNT2022TMID38460**
PROJECT NAME	**ANALYTICS FOR HOSPITAL HEALTH-CARE DATA**

Basic Python

1. Split this string

In [ ]:
```
s = "Hi there Sam!"
```

In [ ]:
```
a = s.split()
print(a)
```

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

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

In [ ]:
```
planet = "Earth"
diameter = 12742
```

In [ ]:
```
a = ("The diameter of {} is {} kilometers." .format(planet,diameter))
print(a)
```

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 [ ]:
```
a = d['k1'][3]['tricky'][3]['target'][3]
print(a)
```

Numpy

In [ ]:

```
import numpy as np
```

4.1 Create an array of 10 zeros?

4.2 Create an array of 10 fives?

In [ ]:

```
a = np.zeros(10)
print(a)
```

In [ ]:

```
a = np.ones(10) * 5
print(a)
```

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

In [ ]:

```
a = np.arange(20, 35, 2)
print(a)
```

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

In [ ]:

```
a = np.arange(9).reshape(3,3)
print(a)
```

7. Concatenate a and b

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

In [ ]:

```
c = np.concatenate((a,b), axis=0)
print(c)
```

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]]

In [ ]:

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

In [ ]: