AI-based localization and classification of skin disease with erythema

ASSIGNMENT-1

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Basic Python

1. Split this string

```
s = "Hi there Sam!"
```

```
s.split()
```

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

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

```
planet = "Earth"
```

```
diameter = 12742
```

```
'The diameter of {} is {} Kilometers.'.format(planet,diameter)
```

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]
```

Numpy

```
import numpy as np
```

4.1 Create an array of 10 zeros?

4.2 Create an array of 10 fives?

```
np.zeros(10)
```

```
np.ones(10)*5
```

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

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

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

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

7. Concatenate a and b

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

a=np.array([1,2,3])

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

print(np.concatenate((a,b)))
```

Pandas

8. Create a dataframe with 3 rows and 2 columns

```
import pandas as pd

data = [{'a':1, 'b':2},{'a':3, 'b':4},{'a':5, 'b';6}]

df=pd.DataFrame(data)

df
```

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

```
pd.data_range("01-01-2023","10-02-2023")
```

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]]

df=pd.DataFrame(lists,columns=['SI.NO','NAME','AGE'])

print(df)
```