IBM-Project-41698-1660644260 /

Assignment_1.ipynb

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1 contributor

571 lines (571 sloc) | 10.8 KB

Basic Python

1. Split this string

In [1]:
```
s = "Hi there Sam!"
```

In [2]:
```
s.split()
```

Out[2]:
```
['Hi', 'there', 'Sam!']
```

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

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

In [1]:
```
planet = "Earth"
diameter = 12742
```

In [3]:
```
print("The diameter of{}
```

```
The diameter ofEarth is
12742 Kilometers.
```

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

In [4]:
```
d = {'k1':[1,2,3,{'trick
```

In [5]:
```
d['k1'][3]['tricky'][3][
```

Out[5]:
```
'hello'
```

4.1 Create an array of 10 zeros?

4.2 Create an array of 10 fives?

In [7]:
```
np.zeros(10)
```

Out[7]:
```
array([0., 0., 0., 0.,
0., 0., 0., 0., 0., 0.])
```

In [8]:
```
np.ones(10) *5
```

Out[8]:
```
array([5., 5., 5., 5.,
5., 5., 5., 5., 5., 5.])
```

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

In [9]:
```
print(np.arange(20,35,2)
```

```
[20 22 24 26 28 30 32 3
4]
```

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

In [10]:
```
np.arange(0,9) .reshape(
```

Out[10]:
```
array([[0, 1, 2],
       [3, 4, 5],
       [6, 7, 8]])
```

7. Concatenate a and b

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

In [11]:

```
print('\n---Results of a
```

```
---Results of a([1,2,3])
and b([4,5,6])---
```

8. Create a dataframe with 3 rows and 2 columns

In [19]:
```
import pandas as pd
```

In [21]:
```
dt ={'Name': {'sathiya'
```

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

In [22]:
```
lists=[[1,'aaa',22],[2,'
```

10. Create 2D list to DataFrame

10. Create 2D list to DataFrame

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

In [23]:
```
lists = [[1, 'aaa', 22],
```

In [24]:
```
lists ={"s.no": [1,2,3],
```

In [25]:
```
pd.DataFrame(lists)
```

Out[25]:

	s.no	name	value
0	1	aaa	22
1	2	bbb	25
2	3	ccc	24

In [26]:
```
pd.DataFrame(lists,index
```

Out[26]:

	s.no	name	value
A	1	aaa	22
b	2	bbb	25
c	3	ccc	24