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Mural: x (1) Wh: x Assign: x Untitle: x GitHub: x Downl: x ibm: x ibm-C: x about: x Downl: x ibm: x +

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Run

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

Numpy

```
In [ ]: import numpy as np
```

4.1 Create an array of 10 zeros?

4.2 Create an array of 10 fives?

```
In [ ]: array=np.zeros(10)
print("An array of 10 zeros:")
print(array)
```

```
In [ ]: array=np.ones(10)*5
print("An array of 10 fives:")
print(array)
```

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Pandas

8. Create a dataframe with 3 rows and 2 columns

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

```
In [ ]: list={'Name':['aaa','bbb','ccc'], 'language':['java','python','c']}
df=pd.DataFrame(list)
print(df)
```

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

```
In [ ]: series=pd.date_range(start='01-01-2023',end='10-02-2023')
for val in series:
    print(val)
```

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 [ ]: df=pd.DataFrame(list,column=['SIno','Name','Age'],dtype=float)
```

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