```
import numpy as np
array=np.ones(10)*5
print("An array of 10 fives:")
print(array)
     An array of 10 fives:
     [5. 5. 5. 5. 5. 5. 5. 5. 5.]
10zeros-numpy.py
10fives-numpy.py
import numpy as np
array=np.zeros(10)
print("An array of 10 zeros:")
print(array)
     An array of 10 zeros:
     [0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
1split-basic.py
string = "Hi there Sam!"
print(string.split())
     ['Hi', 'there', 'Sam!']
2col3row-panda.py
import pandas as pd
data = [['tom', 10], ['nick', 15], ['juli', 14]]
df = pd.DataFrame(data, columns=['Name', 'Age'])
print(df)
        Name Age
        tom
              10
     0
     1 nick
               15
     2 juli
               14
2d-panda.py
```

import pandas as pd

```
from google.colab import drive
drive.mount('/content/drive')

import numpy as np
x = np.arange(0, 9).reshape(3,3)
print(x)

[[0 1 2]
      [3 4 5]
      [6 7 8]]
```

Assignment_1.ipynb

Basic Python

Split this string

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

Use .format() to print the following string. Output should be: The diameter of Earth is 12742 kilometers.

```
planet = "Earth"
diameter = 12742
```

In this nest dictionary grab the word "hello"

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

Numpy

import numpy as np

Create an array of 10 zeros?

Create an array of 10 fives?

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

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

Concatenate a and b

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

Pandas

Create a dataframe with 3 rows and 2 columns

import pandas as pd

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

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]]

concat-numpy.py

import numpy as np

```
a = np.array([1, 2, 3])
print(a)
b = np.array([4, 5, 6])
print(b)
print('\n---Result of a and b---')
print(np.concatenate((a, b)))
     [1 2 3]
     [4 5 6]
     ---Result of a and b---
     [1 2 3 4 5 6]
Double-click (or enter) to edit
date-pandas.py
import datetime
import pandas as pd
# initializing date
test_date = datetime.datetime.strptime("01-01-2023", "%d-%m-%Y")
# initializing periods
periods = datetime.datetime.strptime("02-02-2023", "%d-%m-%Y")
date_generated = pd.date_range(test_date, periods)
print(date generated.strftime("%d-%m-%Y"))
     Index(['01-01-2023', '02-01-2023', '03-01-2023', '04-01-2023', '05-01-2023',
             '06-01-2023', '07-01-2023', '08-01-2023', '09-01-2023', '10-01-2023',
             '11-01-2023', '12-01-2023', '13-01-2023', '14-01-2023', '15-01-2023',
             '16-01-2023', '17-01-2023', '18-01-2023', '19-01-2023', '20-01-2023', '21-01-2023', '22-01-2023', '23-01-2023', '24-01-2023', '25-01-2023',
             '26-01-2023', '27-01-2023', '28-01-2023', '29-01-2023', '30-01-2023',
             '31-01-2023', '01-02-2023', '02-02-2023'],
            dtype='object')
earth-basic.pv
planet = "Earth"
diameter = 12742
print( 'The diameter of {} is {} kilometers.' .format(planet,diameter));
     The diameter of Earth is 12742 kilometers.
```

https://colab.research.google.com/drive/1W84QUpOEpgf_F0y2BrFScoP1pqQ0mcQa#printMode=true

even-numpy.py

```
import numpy as np
array=np.arange(20,36,2)
print("Array of all the even integers from 20 to 36")
print(array)

Array of all the even integers from 20 to 36
   [20 22 24 26 28 30 32 34]

hello-basic.py

d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}}
print(d['k1'][3]["tricky"][3]['target'][3])
   hello
```

Colab paid products - Cancel contracts here

×