ASSIGNMENT-1

SmartBridge Externship (Applied Data Science)

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```
| | | Name a "V. Chanda Reddy"
        Age + "20"
        print(Name)
        print(Ape)
        V.Chandu Reddy
| | x . "Detactionce is used to extract meaningful insights."
        print(x.split())
        ['Outsucionce', 'is', 'used', 'to', 'extract', 'meaningful', 'insights.']
def multiplication(must, must):
          return product
        result = multiplication(29,4)
        print(result)
[1] Dictionary a ("Odina" : "Bhobanessar", "Andhra Fradesh" : "Amaraveti", "Haharustra" : "Humbal", "West Bengal" : "Kolkata", "Goa" : "Penași")
        print(Dictionary)
        print(Dictionary.heys())
        print(Dictionary.values())
         ("Odisa": "Bhubaresuar", "Andhra Fradesh": "Amarovati", "Maharastra": "Mumbai", "Nest Bengal": "Kolkata", "Goa": "Panaji")
        dict_keys[['Odisa', 'Andres Fradesh', 'Haharastra', 'Hest Bengal', 'Goa'])
dict_values[['Bhubanesuar', 'Amarasati', 'Mushai', 'Knikata', 'Panaji'])
          return list(rungo(ef, s2+1))
        print(createList(1, mes))
        [3, 2, 3, 4, 5, 6, 7, 8, 9, 18, 13, 12, 13, 14, 15, 16, 17, 18, 17, 28, 27, 23, 24, 25, 26, 27, 28, 29, 10, 31, 32, 33, 34, 35, 16, 37, 18, 19, 48, 4
1, 42, 43, 48, 45, 46, 47, 48, 68, 50, 51, 32, 33, 34, 55, 56, 57, 58, 18, 60, 61, 62, 63, 84, 85, 66, 67, 68, 88, 78, 72, 73, 76, 75, 76, 77, 78, 7
9, 80, 81, 82, 83, 84, 85, 86, 87, 88, 88, 38, 38, 39, 39, 34, 85, 96, 67, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 189, 118, 118, 112, 113,
```

```
#6
import numpy as np
dim = 4
identity_matrix = np.identity(dim, dtype="int")
print(identity_matrix)
[[1 0 0 0]
  [8 1 8 8]
  [0 0 1 0]
  [0 0 0 1]]
#7
import numpy as np
x = np.arange(1, 10).reshape(3, 3)
print(x)
[[1 2 3]
  [4 5 6]
  [7 8 9]]
#8
import numpy as np
arr1 = [1, 2, 3, 4]
arr2 = [5, 6, 7, 8]
sum = np.add(arr1, arr2)
print(sum)
[ 6 8 10 12]
from datetime import datetime
import pandas as pd
start_date = datetime.strptime("2023-02-01", "%Y-%e-%d")
end_date = datetime.strptime("2023-03-01", "%Y-%e-%d")
D = 'D'
date_list = pd.date_range(start_date, end_date, freq=D)
print(f"Creating list of dates starting from {start_date} to {end_date}")
print(date_list)
Creating list of dates starting from 2023-02-01 00:00:00 to 2023-03-01 00:00:00
DatetimeIndex(['2023-02-01', '2023-02-01'00:00:00'to 2023-03-01']
DatetimeIndex(['2023-02-01', '2023-02-02', '2023-02-03', '2023-02-08', '2023-02-08', '2023-02-08', '2023-02-08', '2023-02-11', '2023-02-12', '2023-02-13', '2023-02-11', '2023-02-11', '2023-02-12', '2023-02-13', '2023-02-18', '2023-02-15', '2023-02-16', '2023-02-17', '2023-02-18', '2023-02-19', '2023-02-20', '2023-02-21', '2023-02-22', '2023-02-23', '2023-02-28', '2023-02-25', '2023-02-26', '2023-02-27', '2023-02-28', '2023-03-03'], divper 'datetime64[osl', free='0']
                     dtype='datetime64[ns]', freq='D')
#10
data = ('Brand' : ['Maruti', 'Renault', 'Hyundai'], 'Sales' : ['250', '200', '240'])
dataframe = pd.DataFrame.from_dict(data)
print(dataframe)
0 Maruti 250
1 Renault 200
2 Myundai 240
```