## **ASSIGNMENT-1**

## SmartBridge Externship (Applied Data Science)

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```
Name a "V. Chandu Reddy"
    Age + "20"
    print(Name)
    print(Age)
x * "Detactionce is used to extract meaningful insights."
    print(x.uplit())
    ['Outsiclence', 'is', 'wsed', 'to', 'extract', 'examingful', 'insights.']
def sultiplication(sust, sust):
     return product
    result = multiplication(29,4)
    print(result)
[1] Dictionary * ("Ddiss": "Endomessar", "Andre Fradesh": "Assessati", "Haharattra": "Hostel", "Sectionary, "Gos": "Ferail";
    print(Dictionary)
    print(Dictionary.heys())
    print(Dictionary, values())
    ["Odita": "Stabanossar", "Andria Pradesh": "Ameroveti", "Maharastra": "Humbal", "Nort Sengal": "Kolkata", "Goa": "Panaji"]
    dict,keys[['Gdia', 'Actor Podent', 'Maharastra', 'Nest Bengsl', 'Coa'])
dist,values[['Bhobsessan', 'Omeravati', 'Humbal', 'Gilkata', 'Panaji']]
| | def create(124(41, 42))
    return list(rungs(el, s2+1))
el, e2 e l, 1000
    print(prestmint(i, meet))
```

8, 209, 1800]

```
#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]]
  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-%s-%d")
end_date = datetime.strptime("2023-03-01", "%Y-%s-%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)")
  Creating list of dates starting from 2023-02-01 00:00:00 to 2023-03-01 00:00:00
 DatetimeIndex(['2023-02-01', '2023-02-02', '2023-02-03', '2023-02-04', '2023-02-04', '2023-02-06', '2023-02-06', '2023-02-06', '2023-02-06', '2023-02-11', '2023-02-12', '2023-02-12', '2023-02-13', '2023-02-14', '2023-02-15', '2023-02-16', '2023-02-17', '2023-02-18', '2023-02-19', '2023-02-20', '2023-02-21', '2023-02-20', '2023-02-21', '2023-02-26', '2023-02-23', '2023-02-28', '2023-02-26', '2023-02-27', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '2023-02-28', '
                                              '2023-03-01'],
                                            dtype='datetime64[ns]', freq='D')
 +20
  import pandas as pd
data = {'Brand' : ['Haruti', 'Renault', 'Hyundai'], 'Sales' : ['250', '200', '248']}
dataframe = pd.DataFrame.from_dict(data)
  print(dataframe)
0 Maruti 250
1 Renault 200
2 Myundai 240
```