## SmartBridge Applied DataScience

## Assignment - 1

Name: PEDAKOTA KEERTHANA

Reg. Num: 20BCD7245

PEDAKOTA KEERTHANA 20

1)

```
Assign your Name to variable name and age to variable age. Make a python program that prints your name and age.

name="PEDAKOTA KEERTHANA"
age="20"
print(name,age)
```

2)

```
X="DataScience is used to extract meaningful insights." Split the string.

[2] X="DataScience is used to extract meaningful insights."
    print(X.split())

['DataScience', 'is', 'used', 'to', 'extract', 'meaningful', 'insights.']
```

```
Make a function that gives multiplication of two numbers

def multiply(a,b):
    return a*b;
    res=multiply(10,5)
    print(res)

50
```

Create a dictionary of 5 states with their capitals, also print the values and keys.

```
States:
Rajasthan
Tamil Nadu
Telangana
Madhya Pradesh
Uttar Pradesh

Capitals:
Jaipur
Chennai
Hyderabad
Bhopal
Lucknow
```

```
Create list of 1000 numbers using range function

[5] nums=list(range(1,1001))
print(nums)
```

```
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30,
```

```
31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90,
```

.

980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000]

```
Create 3x3 matrix with values ranging from 1 to 9.

[7] def matrix(size):
    val=1;
    for row in range(0,size):
        for col in range(0,size):
            print(val, end=" ")
            val+=1
            print()
        size=3
        matrix(size)

[3] The state of the
```

```
Create 2 similar dimensional array and perform sum on them.

[8] arr1=[[4,5,6],[7,8,9]]
    arr2=[[3,8,7],[9,6,4]]
    result = []
    for i in range(len(arr1)):
        row = []
        for j in range(len(arr1[i])):
            row.append(arr1[i][j] + arr2[i][j])
        result.append(row)
    for row in result:
        print(row)

[7, 13, 13]
    [16, 14, 13]
```

```
while (current_day != end_day or current_month != end_month or current_year != end_year):
    print(f"{current_year}-{current_month:02d}-{current_day:02d}")

    current_day += 1

    if current_month in [1, 3, 5, 7, 8, 10, 12]:
        max_days = 31
    elif current_month in [4, 6, 9, 11]:
        max_days = 30
    else:
        if current_year % 4 == 0 and (current_year % 100 != 0 or current_year % 400 == 0):
        max_days = 29
        else:
        max_days = 28
```

```
2023-02-01
              2023-02-11
                         2023-02-21
2023-02-02
              2023-02-12
                         1 2023-02-22
2023-02-03
              2023-02-13
              2023-02-14 + 2023-02-23
2023-02-04
                           2023-02-24
2023-02-05
              2023-02-15
                           2023-02-25
           2023-02-16
2023-02-06
              2023-02-17 = 2023-02-26
2023-02-07
              2023-02-18 = 2023-02-27
2023-02-08
                           2023-02-28
              2023-02-19
2023-02-09
                           2023-03-01
              2023-02-20
2023-02-10
```