1. Introduction

This assignment will help you to consolidate the concepts learnt in the session.

2. Problem Statement

1. Write a program which accepts a sequence of comma-separated numbers from console and generate a list.

Solution 1

Source Code

```
values = input("Input some comma separated numbers : ")
list = values.split(",")
print('List : ',list)
```

Output Screenshot

```
In [26]: values = input("Input some comma separated numbers : ")
    list = values.split(",")
    print('List : ',list)

Input some comma seprated numbers : 2,3,4,5,6,7
    List : ['2', '3', '4', '5', '6', '7']
```

2. Create the below pattern using nested for loop in Python.

```
*
**
**
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**
**
```

Solution 2

Source Code

```
n=5;
for i in range(n):
    for j in range(i):
        print ('* ', end="")
    print('')

for i in range(n,0,-1):
```

```
for j in range(i):
    print('* ', end="")
print('')
```

Output Screenshot

3. Write a Python program to reverse a word after accepting the input from the user.

Sample Output:

Input word: AcadGild Output: dilGdacA

Solution 3

Source Code

```
word = input("Input a word to reverse: ")
for char in range(len(word) - 1, -1, -1):
    print(word[char], end="")
print("\n")
```

Output Screenshot

```
In [1]: word = input("Input a word to reverse: ")
for char in range(len(word) - 1, -1, -1):
    print(word[char], end="")
    print("\n")

Input a word to reverse: Computer
    retupmoC
```

4. Write a Python Program to print the given string in the format specified in the **sample output.**

WE, THE PEOPLE OF INDIA, having solemnly resolved to constitute India into a SOVEREIGN, SOCIALIST, SECULAR, DEMOCRATIC REPUBLIC and to secure to all its citizens

Sample Output:

WE, THE PEOPLE OF INDIA, having solemnly resolved to constitute India into a SOVEREIGN, ! SOCIALIST, SECULAR, DEMOCRATIC REPUBLIC and to secure to all its citizens

Solution 4

Source Code

```
print("WE, THE PEOPLE OF INDIA,", "\n") print("having solemnly resolved to constitute India into a SOVEREIGN, !", "\n") print("SOCIALIST, SECULAR, DEMOCRATIC REPUBLIC ", "\n") print("and to secure to all its citizens")
```

Output Screenshot

```
In [2]: print("WE, THE PEOPLE OF INDIA,", "\n")
    print("having solemnly resolved to constitute India into a SOVEREIGN, !", "\n")
    print("SOCIALIST, SECULAR, DEMOCRATIC REPUBLIC ", "\n")
    print("and to secure to all its citizens")

WE, THE PEOPLE OF INDIA,
    having solemnly resolved to constitute India into a SOVEREIGN, !

SOCIALIST, SECULAR, DEMOCRATIC REPUBLIC
    and to secure to all its citizens
```

NOTE: The solution shared through Github should contain the source code used and the screenshot of the output.

3. Output

N/A