

Data Science Masters Session2:Assignment2

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In [1]: # 1. Write a program which accepts a sequence of comma-separated numbers from console and g

# Solution
inputValues = input("Enter comma-separated numbers : ") # Getting input values from user
outputList = inputValues.split(",") # Splitting them and putting to a L
print("List : ",outputList) # Printing list...
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Enter comma-separated numbers : 11,22,33,44,55,66,77,88,99
List :  ['11', '22', '33', '44', '55', '66', '77', '88', '99']
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In [10]: # 2. Create the below pattern using nested for loop in Python.
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# Solution
def displayStar(n): # function definition
    for i in range(1,n+1): # Generating series from 1 to 5
        print(""*i) # Printing * (i times)
        if(i==n):
            for j in range(n-1,-1,-1): # Generating series in reverse to reduce * each
                print(""*j) # Printing * (j times)
displayStar(5) # function call with n = 5
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In [15]: # 3. Write a Python program to reverse a word after accepting the input from the user.
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# Solution
inputStr = input("Enter the word... : ") # getting input from user...
def reverse(name): # function definition
    rev_char = ""
    for char in name:
        rev_char = char + rev_char
    return rev_char
print("Reversed using inbuilt Str function : ", inputStr[::-1])
print("Reversed using for loop function : ", reverse(inputStr))
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Enter the word... : Acadgild
Reversed using inbuilt Str function : dligdacA
Reversed using for loop function : dligdacA
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In [40]: # 4. Write a Python Program to print the given string in the format specified in the sample
# Given String
# 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
inputStr = " WE,THE PEOPLE OF INDIA,\n\thaving solemnly resolved to constitute India into
print(inputStr)
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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
```