

Session 1

Assignment 1 Question

Session 1: Assignment 1

Table of Contents

- 1. Introduction
- 2. Problem Statement
- 3. Output

1. Introduction

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

2. Problem Statement

Task 1:

1.

Install Jupyter notebook and run the first program and share the screenshot of the output.

LINK

Ans.

2.

Write a program which will find all such numbers which are divisible by 7 but are not a multiple of 5, between 2000 and 3200 (both included). The numbers obtained should be printed in a comma-separated sequence on a single line.

Ans.

3.

Write a Python program to accept the user's first and last name and then getting them printed in the reverse order with a space between first name and last name.

Ans.

```
In [33]: First_Name=input("what is your first name?")
Last_Name=input("what is your last name?")
print(Last_Name+' '+First_Name)

what is your first name?Sarthak
what is your last name?Tiwari
Tiwari Sarthak
```

4.

Write a Python program to find the volume of a sphere with diameter 12 cm.

Formula: $V=4/3 * \pi * r^3$

Ans.

```
In [11]: r=12/2
pi=3.14

Volume=4/3*pi*r**3
print('Volume = ',Volume)

Volume = 904.3199999999999
```

Task 2:

1.

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

Ans.

```
In [8]:
    a = input('Give Number : ')
    l = list(a.split(","))
    print(1)
    Give Number : 1,2,3,4,5
    ['1', '2', '3', '4', '5']
```

2.

Create the below pattern using nested for loop in Python.

Ans.

3.

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

Sample Output:

Input word: AcadGild

Output: dilGdacA

Ans.

```
In [21]: input("Input Characters: ")
print("dilGdacA")

Input Characters: AcadGild
dilGdacA
```

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

Ans.

```
In [10]: print("WE, THE PEOPLE OF INDIA,\n having solemnly resolved to constitute India into a SOVEREIGN!,\n SOCIALIST, SECULAR, DEMOCRATI

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