Session 1

Assignment 1 Question

*Session 1: Assignment 1*

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**1. Introduction**

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

**2. Problem Statement**

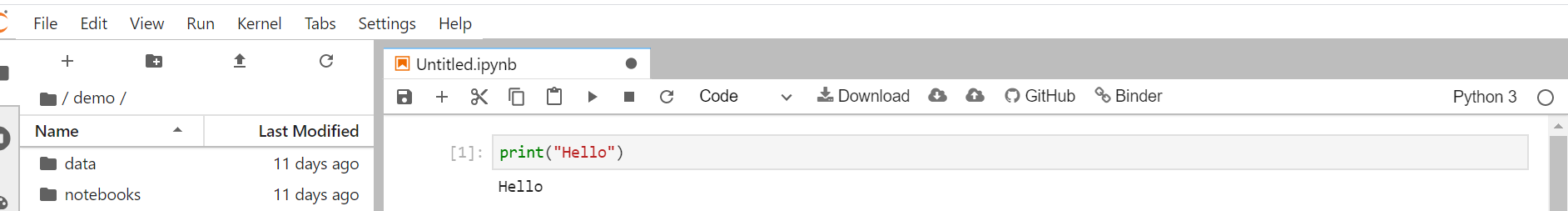
**Task 1:**

1.

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

**Source Code:**

print(m)



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.

**Source Code:**

l = list(range(2000,3200))

m = []

length = len(l)

i = 0

while i < length:

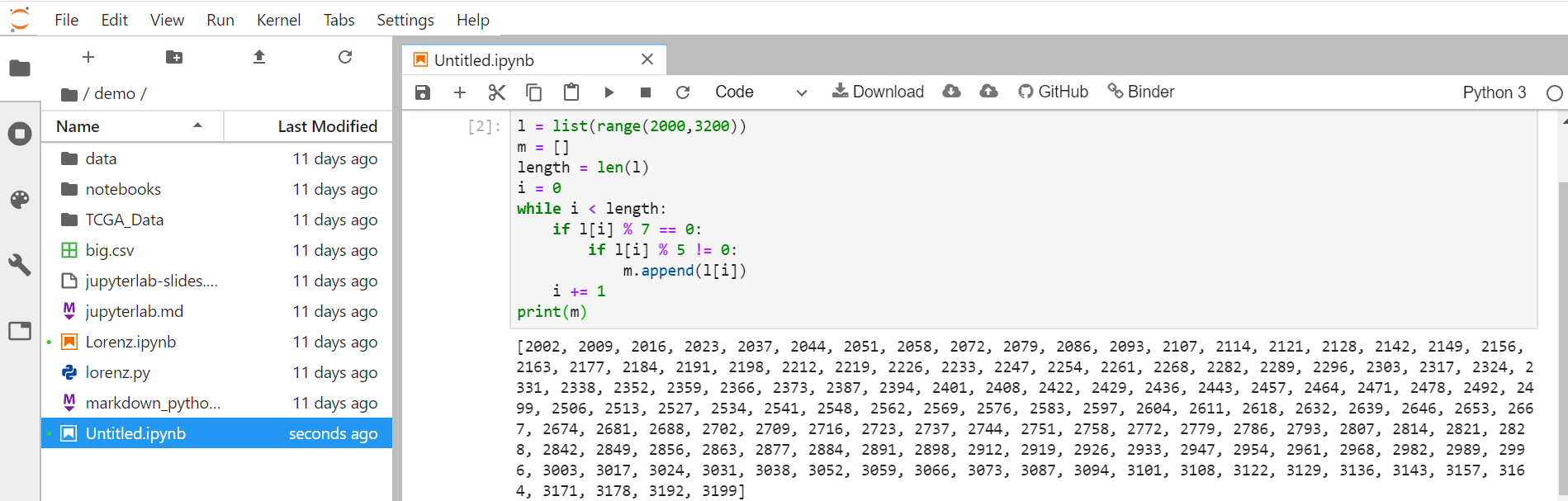
if l[i] % 7 == 0:

if l[i] % 5 != 0:

m.append(l[i])

i += 1

print(m)



3.

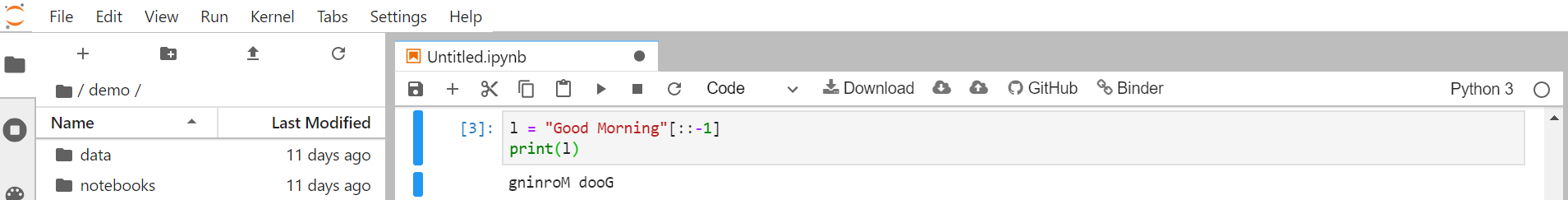
Write a Python program to accept the user's first and last name and then getting them printed in

the the reverse order with a space between first name and last name.

**Source Code:**

l = "Good Morning"[::-1]

print(l)



4.

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

Formula: V=4/3 \* π \* r 3

**Source Code:**

d = 12

r = 12 / 2

print((4/3) \* (22/7) \* r \* r \* r)



**Task 2:**

1.

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

generate a list.

**Source Code:**

x = list(input())

print(x)



2.

Create the below pattern using nested for loop in Python.

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

\* \* \* \*

\* \* \*

\* \*

\*

**Source Code:**

for i in range(1,10):

if i <= 10/2:

for j in range(1,i+1):

print("\* ",end="")

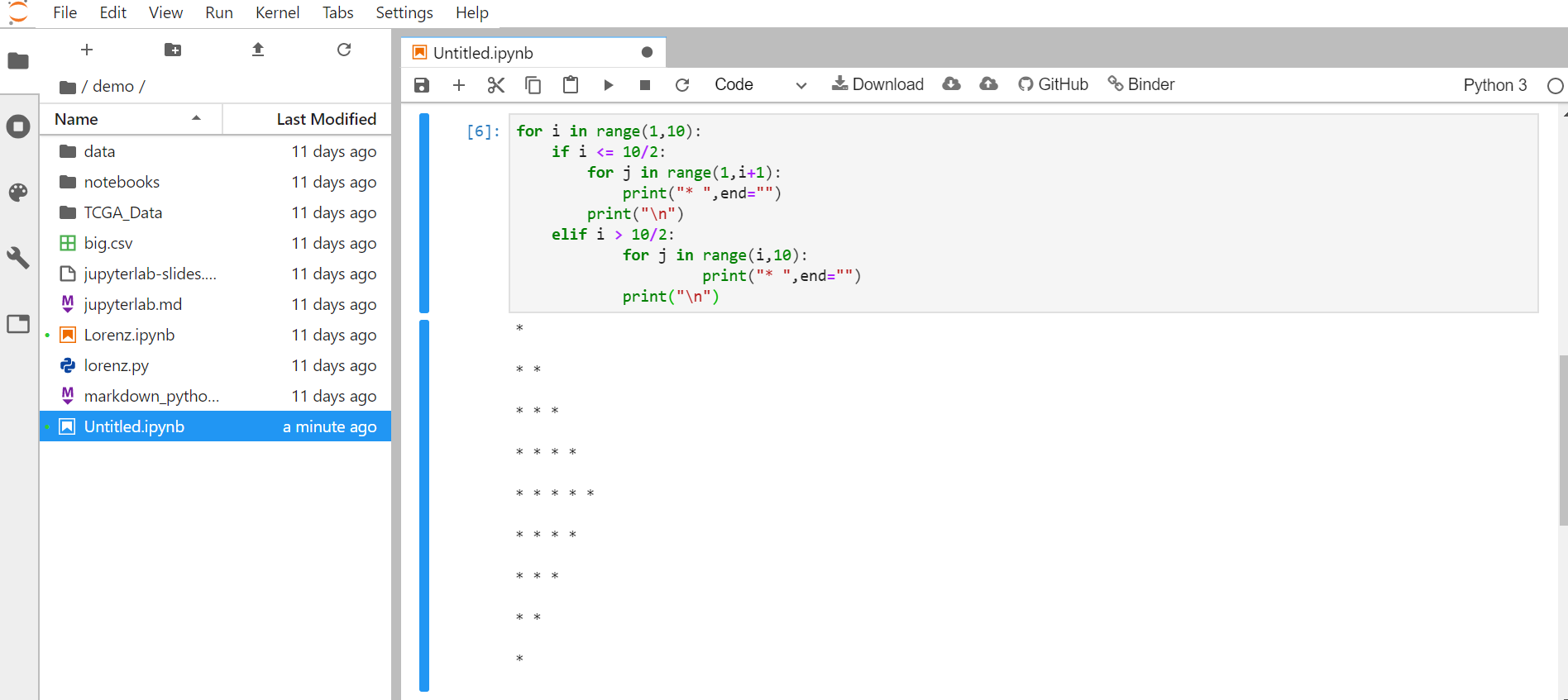
print("\n")

elif i > 10/2:

for j in range(i,10):

print("\* ",end="")

print("\n")



3.

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

**Sample Output:**

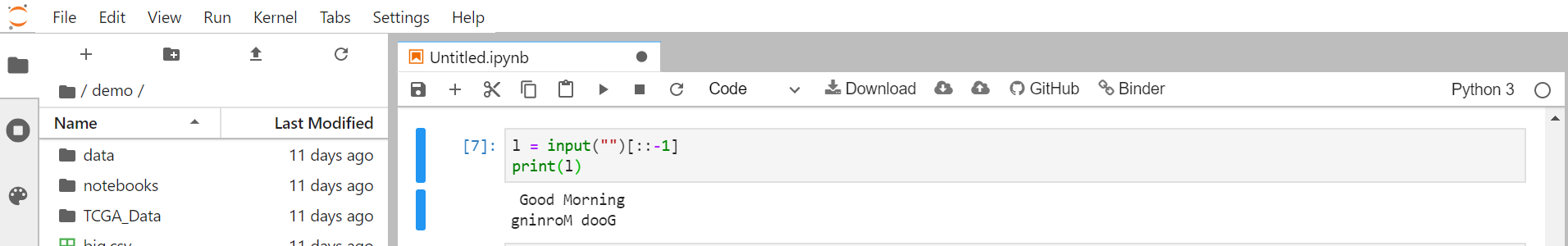
Input word: AcadGild

Output: dilGdacA

**Source Code:**

l = input("")[::-1]

print(l)



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

**Source Code:**

l = '''

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

'''

print(l)

