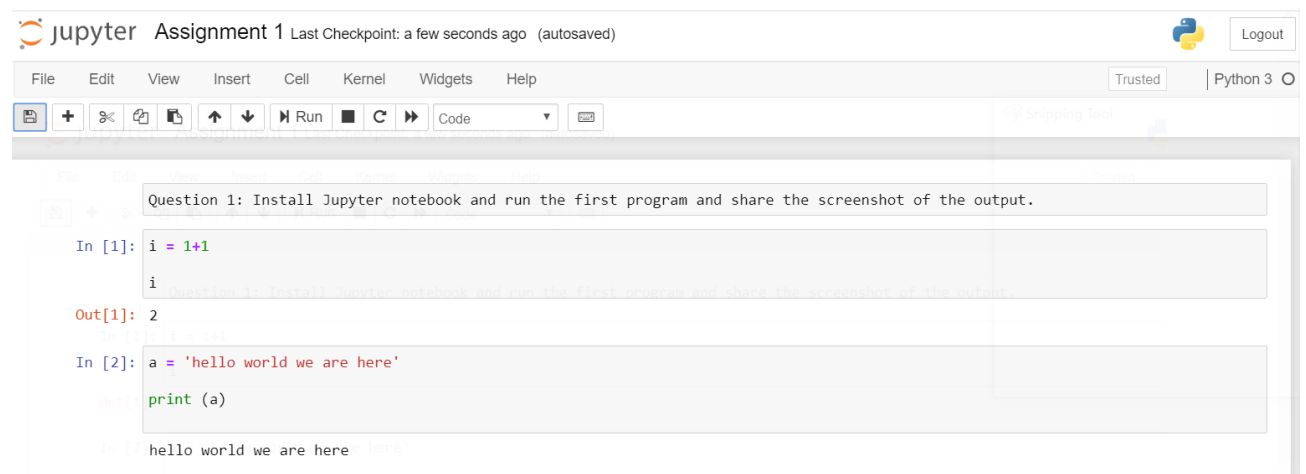


Question 1



The screenshot shows a Jupyter Notebook titled "Assignment 1" with a "Last Checkpoint: a few seconds ago (autosaved)" status. The interface includes a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help) and a toolbar with icons for file operations, running, and code execution. The notebook content shows a question: "Question 1: Install Jupyter notebook and run the first program and share the screenshot of the output." Below the question, there are two code cells. The first cell contains the code `i = 1+1` and `i`, with the output `2`. The second cell contains the code `a = 'hello world we are here'` and `print(a)`, with the output `hello world we are here`.

Question 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 include ed). The numbers obtained should be printed in a comma-separated sequence on a single line.

```
l = []
for number in range (2000,3201):
    if number %7== 0 and number %5!= 0:
        l.append(number)
print(l)
```

```
[2002, 2009, 2016, 2023, 2037, 2044, 2051, 2058, 2072, 2079, 2086, 2093, 2107, 2114, 2121, 2128, 2142, 2149, 2156, 2163, 2177, 2184, 2191, 2198, 2212, 2219, 2226, 2233, 2247, 2254, 2261, 2268, 2282, 2289, 2296, 2303, 2317, 2324, 2331, 2338, 2352, 2359, 2366, 2373, 2387, 2394, 2401, 2408, 2422, 2429, 2436, 2443, 2457, 2464, 2471, 2478, 2492, 2499, 2506, 2513, 2527, 2534, 2541, 2548, 2562, 2569, 2576, 2583, 2597, 2604, 2611, 2618, 2632, 2639, 2646, 2653, 2667, 2674, 2681, 2688, 2702, 2709, 2716, 2723, 2737, 2744, 2751, 2758, 2772, 2779, 2786, 2793, 2807, 2814, 2821, 2828, 2842, 2849, 2856, 2863, 2877, 2884, 2891, 2898, 2912, 2919, 2926, 2933, 2947, 2954, 2961, 2968, 2982, 2989, 2996, 3003, 3017, 3024, 3031, 3038, 3052, 3059, 3066, 3073, 3087, 3094, 3101, 3108, 3122, 3129, 3136, 3143, 3157, 3164, 3171, 3178, 3192, 3199]
```

Question 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.

```
In [4]: name = input("Enter your 1st Name ")
surname = input("Enter your last name ")
print(name[::-1] + ' ' + surname[::-1])
```

```
Enter your 1st Name Michael
Enter your last name Jordan
leahciM nadroJ
```

Question 4: Write a Python program to find the volume of a sphere with diameter 12 cm. Formula: $V = \frac{4}{3} \pi r^3$

```
In [5]: import math
pi = math.pi
r = 12/2
volume= 4/3*pi*r**3
print(volume)
```

```
904.7786842338603
```

Task 2

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

```
: number= input("please provide number")
splitted_num = number.split(" , ")
print (list(splitted_num))
```

```
please provide number49,59, 60 ,40 ,12
['49,59, 60 ,40 ,12']
```

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

```
def pyramid(rows):
    for i in range(rows):
        print('*'(rows-i+1)+'*'(i+1))
    for j in range(rows-1,0,-1):
        print('*'(rows-j)+'*'(j))
```

```
pyramid(5)
```

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

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

```
theword = input("please provide a word: ")
print(theword[::-1])
```

```
please provide a word: mustapha
ahpatsum
```

Question 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
```

```
print ("WE, THE PEOPLE OF INDIA, \n " "having solemnly resolved to constitute India into a SOVEREIGN,\n SOCIALIST, SECULAR, DEMOC
```

```
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
```