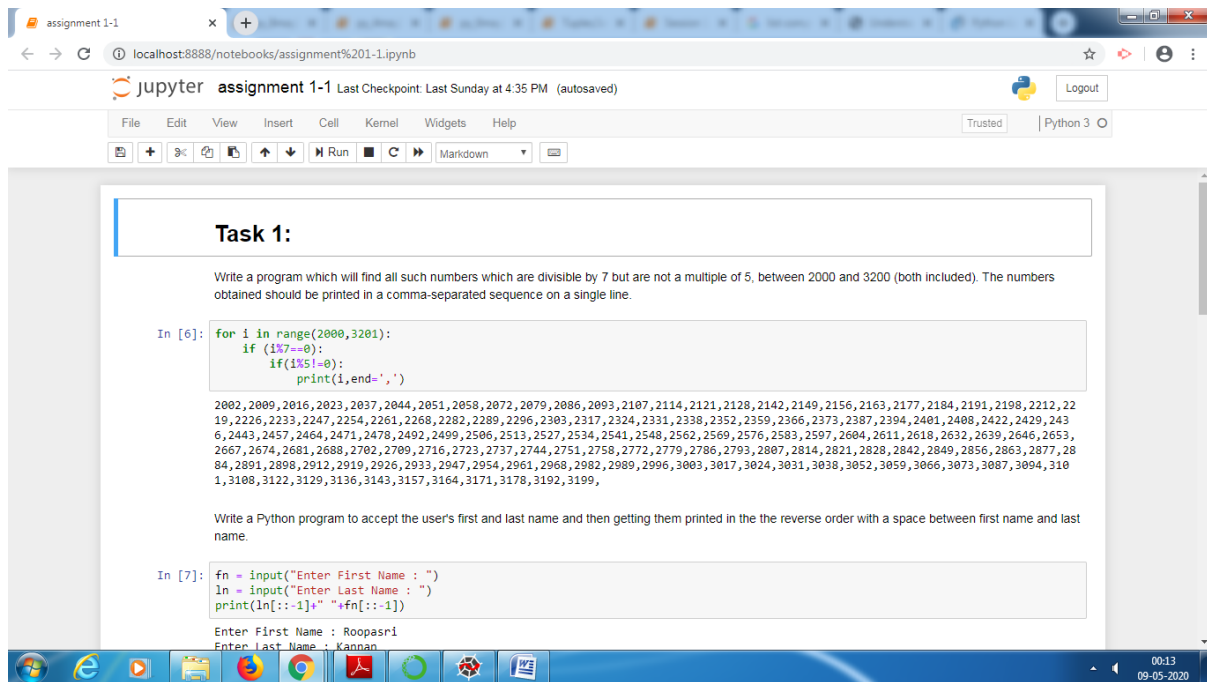


ASSIGNMENT 1

Screenshots



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.

```
In [7]: fn = input("Enter First Name : ")
        ln = input("Enter Last Name : ")
        print(ln[::-1]+" "+fn[::-1])
```

Enter First Name : Roopasri
Enter Last Name : Kannan
nannak irsappor

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

```
In [13]: d = 12
          r = d/2
          volume = (4/3)*3.141*(r**3)
          print("Volume of sphere is",volume,"cubic cm")
```

Volume of sphere is 904.608 cubic cm

Task 2:

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

```
In [5]: val = input("Enter sequence of comma seperated numbers : ")
        new_list = val.split(',')
        print(new_list)
```

Enter sequence of comma seperated numbers : 10,20,30,40,50
['10', '20', '30', '40', '50']

Create the below pattern using nested for loop in Python.

```
In [35]: for x in range(0,5):
          for y in range(0,x+1):
              print("+",end=" ")
          print("\n")
          for x in range(3,-1,-1):
              for y in range(0,x+1):
                  print("+",end=" ")
                  print("\n")
```

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

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

```
In [7]: word = input("Enter any word : ")
         print(word[::-1])
```

```
Enter any word : Tamil Nadu
udaN lmaT
```

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

```
In [14]: print("WE, THE PEOPLE OF INDIA,\n\thaving solemnly resolved to constitute India into a SOVEREIGN, !\n\t\tSOCIALIST,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
```