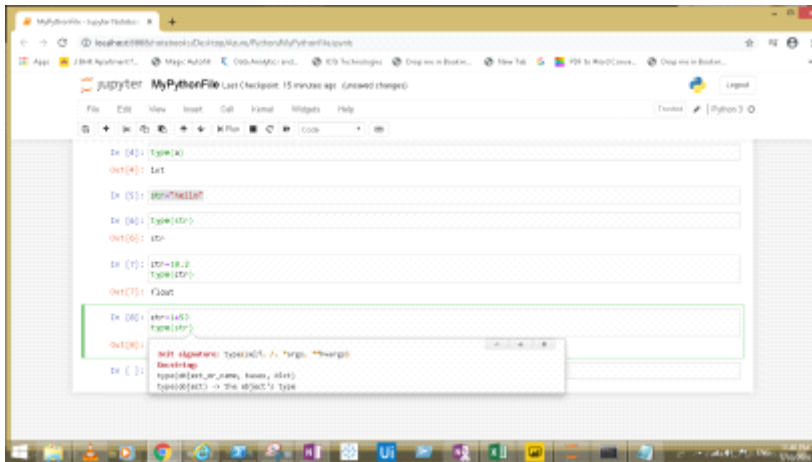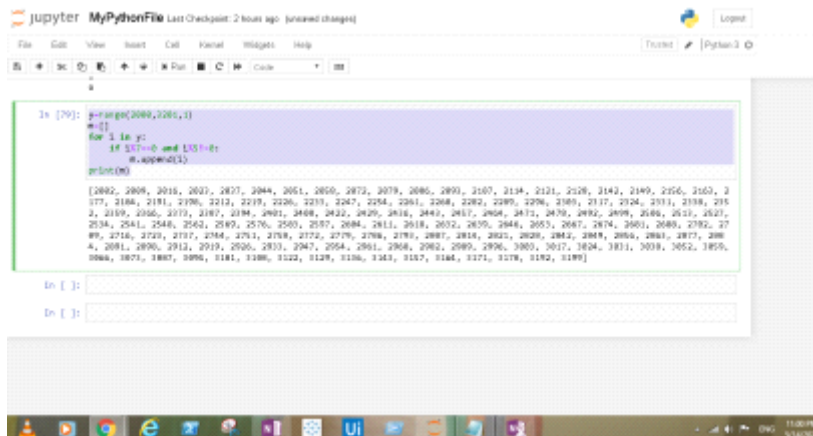## Task 1:

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

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.

```python
y=range(2000,3201,1)
m=[]
for i in y:
    if i%7==0 and i%5!=0:
        m.append(i)
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.

```
In [108]: f1=input("Enter first name ")
          f2=input("Enter last name ")
          m=[f2+" "+f1]
          print(m)

          Enter first name abc
          Enter last name def
          ['def abc']
```

```
In [109]: f3=[]
          f3=f1+" "+f2
          print(f3)
          f3[::-1]

          abc def
```

Out[109]: 'fed cba'

Task 2

1.

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

```
In [110]: x=[]
          x=input("enter values separated by , ")
          print(x)

          enter values separated by , 1,2,3,5,6,7,8
          1,2,3,5,6,7,8
```

```
In [135]: y=list
          y=input("enter values separated by , ")
          print(y)

          enter values separated by , 1,2,4,6,8
          1,2,4,6,8
```

2.

Create the below pattern using nested for loop in Python.

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

In [134]:
```python
x=range(0,5,1)
y=range(5,0,-1)
for i in x:
    if i<=5:
        print("*"*i)
for j in y:
    if j>=0:
        print("*"*j)
```

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

3.

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

Sample Output:

Input word: AcadGild

Output: dilGdacA

In [141]:
```python
w=[]
x=[]
w=input("Enter the word ")
x=w[::-1]

print(x)
```
```
Enter the word AcadGild
dliGdacA
```

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

In [156]:
```python
str1="WE,THE PEOPLE OF INDIA,\n\thaving solemnly resolved to constitute India into a SOVEREIGN,!\n\t\tSOCIALIST, SECULAR, DE
str1.expandtabs()
print(str1)
```
```
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
```