1. 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.

In [1]:
```
for i in range(2000,3201):
    if i%7==0 and i%5!=0:
        print(i,end=",")
```

```
2002,2009,2016,2023,2037,2044,2051,2058,2072,2079,2086,2093,2107,2114,2121,212
8,2142,2149,2156,2163,2177,2184,2191,2198,2212,2219,2226,2233,2247,2254,2261,22
68,2282,2289,2296,2303,2317,2324,2331,2338,2352,2359,2366,2373,2387,2394,2401,2
408,2422,2429,2436,2443,2457,2464,2471,2478,2492,2499,2506,2513,2527,2534,2541,
2548,2562,2569,2576,2583,2597,2604,2611,2618,2632,2639,2646,2653,2667,2674,268
1,2688,2702,2709,2716,2723,2737,2744,2751,2758,2772,2779,2786,2793,2807,2814,28
21,2828,2842,2849,2856,2863,2877,2884,2891,2898,2912,2919,2926,2933,2947,2954,2
961,2968,2982,2989,2996,3003,3017,3024,3031,3038,3052,3059,3066,3073,3087,3094,
3101,3108,3122,3129,3136,3143,3157,3164,3171,3178,3192,3199,
```

In [ ]:

2.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 [10]:
```
firstname,lastname = input(), input()
print("Firstname :- {}\nLastname:-{}".format(firstname,lastname))
print("Now we are printing firstname and lastname in reverse order")
print("Firstname :- {}\nLastname:-{}".format(firstname[::-1],lastname[::-1]))
```

```
sir
madam
Firstname :- sir
Lastname:-madam
Now we are printing firstname and lastname in reverse order
Firstname :- ris
Lastname:-madam
```

In [ ]:

3.Write a Python program to find the volume of a sphere with diameter 12 cm.
Formula: V=4/3 * π * r3

In [5]:
```
def volumeofsphere(r):
    return (4/3)*(22/7)*(r**3)
print("volume of a sphere  is :-",volumeofsphere(12))
```

```
volume of a sphere  is :- 7241.142857142856
```

In [ ]:
```

```

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

In [4]:
```
s=input("")
a=list(s.split(","))
print(a)
```

```
1,2,3,4,5
['1', '2', '3', '4', '5']
```

In [ ]:
```

```

5.Create the below pattern using nested for loop in Python.

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

In [7]:
```
mid=4
for i in range(9):
    if i>mid:
        print('* '*(9-i))
    else:
        print('* '*(1+i))
```

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

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

```
Sample Output:
    Input word: Ineuron
    Output: noruenI
```

In [8]:
```
io=input("")
print(io[::-1])
```

```
Ineuron
 noruenI
```

In [ ]:
```

```

```
7. Write a Python Program to print the given string in the format specified in
the sample output.
Sample Input:-
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 [16]:
```
aqw= "WE, THE PEOPLE OF INDIA, having solemnly resolved to constitute India into
aqwe="WE, THE PEOPLE OF INDIA, having solemnly resolved to constitute India into
```

In [ ]:
```

```

In [17]:
```
len(aqwe)
```

Out[17]: 161

In [18]:
```
len(aqw)
```

Out[18]: 161

In [ ]:
```

```