

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=",")
```

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

In [ ]:

2. 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 [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:  $V = \frac{4}{3} * \pi * r^3$

```
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 [19]: a= "WE, THE PEOPLE OF INDIA, having solemnly resolved to constitute India into a  
          print(a)
```

```
WE, THE PEOPLE OF INDIA, having solemnly resolved to constitute India into a SO  
VEREIGN, SOCIALIST, SECULAR, DEMOCRATIC REPUBLIC and to secure to all its citiz  
ens
```

```
In [ ]:
```

```
In [ ]:
```