


▼ Task 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 3000 (both included). The numbers obtained should be printed in a comma-separated sequence on a single line.

```
1 s = list(range(2000,3001))
2 m=[]
3 for i in s:
4     if(i%5 ==0 and i%7 == 0):
5         m.append(i)
6 print(m)
```


 [2030, 2065, 2100, 2135, 2170, 2205, 2240, 2275, 2310, 2345, 2380, 2415, 2450, 2485, 2520]

Write a Python program to accept the user's first and last name and then getting them printed in the reverse order of the first name and last name.

```
1 f_name = input("Enter First name")
2 l_name = input("Enter Last name")
3 full = f_name + " " + l_name
4 rev = []
5 i = len(full)
6 while i > 0:
7     rev.append(full[i-1])
8     i -= 1
9 print(''.join(rev))
```

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

```
1 from math import pi
2 dia = 12
3 r= dia/2
4 vol = 4 / 3 * (pi) * (r**3)
5 vol
```

 904.7786842338603


▼ Task 2

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

```

1 csv = input("Enter Comma separated values")
2 l = csv.split(',')
3 print(l)

```

 Enter Comma separated values5,6,7,89,32,1
['5', '6', '7', '89', '32', '1']

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

• *

• *

•

```

1 for i in range(1,7):
2     if(i<6):
3         print(" "*i)
4     elif(i==6):
5         for j in range (6,0,-1):
6             print(""*j)

```

 *

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```

Write a Python program to reverse a word after accepting the input from the user. Sample Output: Inp

```

1 data = input()
2
3 rev = []
4 i = len(data)
5 while i > 0:
6     rev.append(data[i-1])
7     i -= 1
8 print(''.join(rev))

```

 sbqjdk
kdjqbs

Write a Python Program to print the given string in the format specified in the sample output. WE, THE resolved to constitute India into a SOVEREIGN, SOCIALIST, SECULAR, DEMOCRATIC REPUBLIC and to WE, THE PEOPLE OF INDIA, having solemnly resolved to constitute India into a SOVEREIGN, ! SOCIALI

```

1 case = input()
2 split_data = case.split(" ")
3 j=1
4 end1 = len(split_data)-1
5 for i in range(0,end1):
6     if(split_data[i].isupper() and split_data[i+1].isupper()):
7         #all caps
8         print(split_data[i], end = ' ')
9     elif( (split_data[i].isupper() and split_data[i+1].islower()) or (split_data[i].islower(
10         #interchanges
11         print(split_data[i], end = ' ' )
12         if(j>=1):
13             print("\n ")
14             print("\t"*j, end = " ")
15             j+=1
16     elif(split_data[i].islower() and split_data[i+1].islower()):
17         #all lower
18         print(split_data[i],end = ' ')
19     if(i==end1-1):
20         print(split_data[i], split_data[i+1])

```



WE, THE PEOPLE OF INDIA, having solemnly resolved to constitute India into a SOVEREIGN,
WE, THE PEOPLE OF INDIA,

having solemnly resolved to into a

SOVEREIGN, SOCIALIST, SECULAR, DEMOCRATIC REPUBLIC

and to secure to all its its citizens