Task 1:

In [18]:

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

#2 . Write a program which will find all such numbers which are divisible by 7 but a
# of 5, between 2000 and 3200 (both included). The numbers obtained should be printe
# comma-separated sequence on a single line.'''

result = []
for i in list(range(2000,3200+1)) :
    if (i % 7) == 0 and (i % 5) != 0 :
        result.append(i)
print(result)
```

```
[2002, 2009, 2016, 2023, 2037, 2044, 2051, 2058, 2072, 2079, 2086, 209
3, 2107, 2114, 2121, 2128, 2142, 2149, 2156, 2163, 2177, 2184, 2191, 2
198, 2212, 2219, 2226, 2233, 2247, 2254, 2261, 2268, 2282, 2289, 2296,
2303, 2317, 2324, 2331, 2338, 2352, 2359, 2366, 2373, 2387, 2394, 240
1, 2408, 2422, 2429, 2436, 2443, 2457, 2464, 2471, 2478, 2492, 2499, 2
506, 2513, 2527, 2534, 2541, 2548, 2562, 2569, 2576, 2583, 2597, 2604,
2611, 2618, 2632, 2639, 2646, 2653, 2667, 2674, 2681, 2688, 2702, 270
9, 2716, 2723, 2737, 2744, 2751, 2758, 2772, 2779, 2786, 2793, 2807, 2
814, 2821, 2828, 2842, 2849, 2856, 2863, 2877, 2884, 2891, 2898, 2912,
2919, 2926, 2933, 2947, 2954, 2961, 2968, 2982, 2989, 2996, 3003, 301
7, 3024, 3031, 3038, 3052, 3059, 3066, 3073, 3087, 3094, 3101, 3108, 3
122, 3129, 3136, 3143, 3157, 3164, 3171, 3178, 3192, 3199]
```

In [20]:

```
# 3. Write a Python program to accept the user's first and last name and then gettir
# in the the reverse order with a space between first name and last name.

firstName = input("Enter first name: ")
lastName = input("Enter last name: ")
fullName = firstName + " " + lastName
fullName[::-1]
```

```
Enter first name: Pradipta
Enter last name: Behera
```

Out[20]:

```
'areheB atpidarP'
```

In [29]:

```
# 4. Write a Python program to find the volume of a sphere with diameter 12 cm. Form
dia = 12
pi = 3.142
v = (4/3) * pi * ((dia / 2) ** 3)
print(v)
```

```
904.896
```

Task 2:

In [60]:

```
# 1. Write a program which accepts a sequence of comma-separated numbers from consol

result = []
for i in list(range(int(input("Enter list size:")))) :
    val = input("Enter " + str(i) + "th value:")
    result.append(val)
print(result)
```

```
Enter list size:5
Enter 0th value:10
Enter 1th value:12.3
Enter 2th value:2+9J
Enter 3th value:True
Enter 4th value:Pradipta
['10', '12.3', '2+9J', 'True', 'Pradipta']
```

In [92]:

```
# 2. Create the below pattern using nested for loop in Python.
"""
*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*
"""
n = int(input("Enter max columns:"))
rows = ((n * 2) + 1)
for i in list(range(1, rows)) :
    r = ''
    if i <= n :
        for j in list(range(i)):
            r += '* '
    else :
        for j in list(range(i, rows -1)):
            r += '* '
    print(r)
```

```
Enter max columns:5
*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*
```

In [94]:

```
# 3. Write a Python program to reverse a word after accepting the input from the use
# Sample Output:
# Input word: AcadGild
# Output: dilGdacA

s = input("Enter string: ")
print(s[::-1])
```

```
Enter string: AcadGild
dliGdacA
```

In [114]:

```
# 4. Write a Python Program to print the given string in the format specified in the
# 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

str = '''WE, THE PEOPLE OF INDIA, having solemnly resolved to constitute India into
x = ''
for i in str.split(','):
    if i.isupper() :
        if x.isupper() :
            x += (i + ',')
        else :
            print(x)
            x = (i + ',')
    else:
        print(x)
        x = (i + ',')
print(x)
```

```
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 [ ]: