In [47]:
```
# Task 1, Question 1
# Install Jupyter notebook and run the first program and share the screenshot of the output.

print ("Hello World")
```

```
Hello World
```

In [28]:
```
# Task 1, Question 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.

for i in range(2000, 3200):
    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 , 22
68 , 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 , 26
81 , 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 , 30
94 , 3101 , 3108 , 3122 , 3129 , 3136 , 3143 , 3157 , 3164 , 3171 , 3178 , 3192 , 3199 ,
```

In [31]:
```
# Task 1, Question 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.

F = input ("Enter your First Name: ")
L = input ("Enter your Last Name: ")
print(L,F)
```

```
Enter your First Name: Eswar
Enter your Last Name: Poluri
Poluri Eswar
```

In [49]:
```
# Task 1, Question 4
# Write a Python program to find the volume of a sphere with diameter 12 cm.
# Formula: V=4/3 * π * r 3

import math
P = math.pi
r = 12/2
v=(4/3)*P*r**3
print(v)
```

```
904.7786842338603
```

In [8]:
```
# Task 2, Question 1
# Write a program which accepts a sequence of comma-separated numbers from console and generate a list.

a = list(input('Enter list of numbers seperated by ",": ' ))
l=[]
for i in range(0, len(a)):
    if a[i] != "," :
        l.append(int(a[i]))
print(l)
```

```
Enter list of numbers seperated by ",": 1,2,3,4,5
[1, 2, 3, 4, 5]
```

In [4]:
```
# Task 2, Question 2
# Create the below pattern using nested for loop in Python.
# *
# * *
# * * *
# * * * *
# * * * * *
# * * * *
# * * *
# * *
# *

n=5
for i in range(n, -n,-1):
        for j in range(n-abs(i)):
                print("*", end="")
        print()
```

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

In [5]:
```
# Task 2, Question 2 without nested for loop
n=5
for i in range(n, -n,-1):
        print((n-abs(i))*"*")
```

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

In [3]:
```
# Task 2, Question 3
# Write a Python program to reverse a word after accepting the input from the user.

i=input('enter a word: ')
for j in range(len(i),0,-1):
        print(i[j-1], end='')
```

```
enter a word: Ineuran
naruenI
```

In [7]:
```
# Task 2, Question 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

print("WE, THE PEOPLE OF INDIA, \n\thaving solemnly resolved to constitute India into a SOVEREIGN,! \n\t\tSOC
IALIST SECULAR, DEMOCRATIC REPUBLIC \n\t\tand to secure to all its citizens")
```

```
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
```