Assignment 1

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

In [1]:
```
a = int(input("enter first number: "))
b = int(input("enter second number: "))

sum = a + b

print("sum:", sum)
```

```
enter first number: 23
enter second number: 34
sum: 57
```

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.

In [6]:
```
a=[]
for x in range(2000, 3201):
    if (x%7==0) and (x%5!=0):
        a.append(str(x))
print (','.join(a))
```

```
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
```

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.

In [11]:
```
first = input("Input your First Name :")
last = input("Input your Last Name :")
print (last+" "+first)
```

```
Input your First Name :Deb
Input your Last Name :Bose
Bose Deb
```

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

In [19]:
```
## V = 4/3 × π × r3 = π × d3/6.*
pi = 3.1415926535897931
d= 12.0
r =d/2
V= (4.0/3.0)*pi*r*r*r
print('The volume of a sphere is: ',V )
```

```
The volume of a sphere is:  904.7786842338604
```

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

In [22]:
```
values = input("enter sequence of comma seprated numbers : ")
l = values.split(",")
print('List :',l)
```

```
enter sequence of comma seprated numbers : 11,13,15,19,29,31,35
List : ['11', '13', '15', '19', '29', '31', '35']
```

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

- *

-

In [13]:
```
rows = input("Enter max star to be displayed on single line")
rows = int (rows)
for i in range (0, rows):
    for j in range(0, i + 1):
        print("*", end=' ')
    print("\r")

for i in range (rows, 0, -1):
    for j in range(0, i -1):
        print("*", end=' ')
    print("\r")
```

```
Enter max star to be displayed on single line5
*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*
```

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

In [4]:
```
word = input("Input word:")

for char in range(len(word) - 1, -1, -1):
    print(word[char], end="")
```

```
Input word:AcadGild
dliGdacA
```

8.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

In [11]:
```
print("WE, THE PEOPLE OF INDIA, \n\thaving solemnly resolved to constitute India in
to a SOVEREIGN,! \n\t\tSOCIALIST, 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
```

In [ ]:
```

```