

ASSIGNMENT 1

Task 1

1)

```
In [33]: g="sreelekha"  
         id(g)
```

```
Out[33]: 2526956099696
```

2)

```
In [17]: m=[]  
         for x in range(2000, 3200):  
             if (x%7==0) and (x%5!=0):  
                 m.append(x)  
         print(m)
```

```
[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, 2  
366, 2373, 2387, 2394, 2401, 2408, 2422, 2429, 2436, 2443, 2457, 2464, 2471, 2478, 2492, 2499, 2506, 2513, 2527, 2534, 2541, 25  
48, 2562, 2569, 2576, 2583, 2597, 2604, 2611, 2618, 2632, 2639, 2646, 2653, 2667, 2674, 2681, 2688, 2702, 2709, 2716, 2723, 273  
7, 2744, 2751, 2758, 2772, 2779, 2786, 2793, 2807, 2814, 2821, 2828, 2842, 2849, 2856, 2863, 2877, 2884, 2891, 2898, 2912, 291  
9, 2926, 2933, 2947, 2954, 2961, 2968, 2982, 2989, 2996, 3003, 3017, 3024, 3031, 3038, 3052, 3059, 3066, 3073, 3087, 3094, 310  
1, 3108, 3122, 3129, 3136, 3143, 3157, 3164, 3171, 3178, 3192, 3199]
```

3)

```
In [26]: l="sree"  
         f="lekha"  
         print(f,l)
```

```
lekha sree
```

4)

```
In [30]: r=6  
         pi=3.14  
         v=4/3*pi*r*r*r  
         print(v)
```

```
904.3199999999998
```

Task 2

1)

```
In [40]: t = [2,3,4,5,6,7,8,9,9,8,7,6,5,4,3,2,1]  
         t
```

```
Out[40]: [2, 3, 4, 5, 6, 7, 8, 9, 9, 8, 7, 6, 5, 4, 3, 2, 1]
```

```
In [45]: o= list(range(1,6))  
         print(o)
```

```
[1, 2, 3, 4, 5]
```

ASSIGNMENT 1

2)

```
In [100]: z=[5]
          for i in range(0,5):
            for j in range(i):
              print("* ",end="")
              print('\n')

          for i in range(5,0,-1):
            for j in range(i):
              print("* ",end="")
              print('\n')
```

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

3)

```
In [12]: word = input("Input a word to reverse: ")

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

Input a word to reverse: sreelekha
ahkeleers

4)

How I wonder what you are

```
In [25]: print("WE, THE PEOPLE OF INDIA,\n\t having solemnly resolved to constitute India into a SOVEREIGN,! \n\t\t SOCIALIST, SECULAR, DEMOCRATIC REPUBLIC\n\t and 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