day 5 exercise about:srcdoc

```
In [2]: | #Write a program in Python to produce Star triangle for any number n
          print("Print equilateral triangle Pyramid using stars ")
         size=int(input("Enter the Number"))
         m = (2 * size) - 2
          for i in range(0, size):
              for j in range(0, m):
                  print(end=" ")
              m = m - 1
              for j in range(0, i + 1):
                  print("*", end=' ')
              print(" ")
         Print equilateral triangle Pyramid using stars
In [13]: #Write a program to produce Fibonacci series using generator in Python
         def fib(limit):
              a, b = 0, 1
              while a < limit:</pre>
                  yield a
                  a, b = b, a + b
         x = fib(5)
         print("\nUsing for in loop")
          for i in fib(5):
              print(i)
         Using for in loop
         1
         1
         2
         3
In [15]: | #Convert the following dictionary into two lists of country and medals. Agai
         n convert them into
         #list of (country, medals) . Finally convert the list of tuples into dictiona
         ry again.
         #golds = {"Italy": 12, "USA": 33, "Brazil": 15, "China": 27, "Spain": 19,\
         #"Canada": 22, "Argentina": 8, "England": 29}
         golds = {"Italy": 12, "USA": 33, "Brazil": 15, "China": 27, "Spain": 19, "Can
          ada": 22, "Argentina": 8, "England": 29}
          # Converting into list of tuple
         list = [(k, v) for k, v in golds.items()]
         # Printing list of tuple
         print("DICTIONARY to list of TUPLES")
         print(list)
          def Convert(list, di):
              for a, b in list:
                  di.setdefault(a, []).append(b)
              return di
          dictionary = {}
         print ("\nTUPLES to DICTIONARY: ",Convert(list, dictionary))
         DICTIONARY to list of TUPLES
         [('Italy', 12), ('USA', 33), ('Brazil', 15), ('China', 27), ('Spain', 19), ('
         Canada', 22), ('Argentina', 8), ('England', 29)]
         tuples to dictionary: {'Italy': [12], 'USA': [33], 'Brazil': [15], 'China':
[27], 'Spain': [19], 'Canada': [22], 'Argentina': [8], 'England': [29]}
```

1 of 2 20/09/20, 11:28 am

day 5 exercise about:srcdoc

```
In [16]: #Write a program to check a number and a string are palindrome or not withou
           t using looping statement.
           def pal(s):
               return s == s[::-1]
           s= str(input("ENTER number or string: "))
           a=pal(s)
           if a:
                print("palindrome")
           else:
               print("Not-Palindrome")
           palindrome
In [17]: golds = {"Italy": 12, "USA": 33, "Brazil": 15, "China": 27, "Spain": 19, "Can
           ada": 22, "Argentina": 8, "England": 29}
golds1 = (sorted(golds.items()))
           print(golds1)
           [('Argentina', 8), ('Brazil', 15), ('Canada', 22), ('China', 27), ('England',
29), ('Italy', 12), ('Spain', 19), ('USA', 33)]
 In [ ]:
```

2 of 2 20/09/20, 11:28 am