## **Programs of Function**

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In [10]: # 1) write a python f() to calculate LCM of two no.
         def lcm(a,b):
             i=2
             lcm=max(a,b)
             while (lcm\%a==0 \text{ and } lcm\%b==0)<1:
                  x=a
                  if x>b:
                      x=b
                  if x\%a==0 and x\%b==0:
                      1cm=x
                  elif (x*i)\%a==0 and (x*i)\%b==0:
                      lcm=x*i
                  else:
                      i+=1
              return lcm
         a,b=[int(i) for i in input("Enter two no. by giving space: ").split()]
         lcm=lcm(a,b)
         print(lcm)
         Enter two no. by giving space: 10 12
         60
In [23]: \# 2) write a python f() to count words in a string
         def word Count(s):
             s=s.split()
             c=len(s)
             return c
         x=input("Enter text for counting of words: ")
         print(f"Words in your text: {word Count(x)}")
         Enter text for counting of words: nikhil bittu pankaj lucky hai
         Words in your text: 5
In [13]: \# 3) write a python f() to find no. in a given text, store no. in a list & ret
         def no_in_Text(s):
             n="0123456789"
             1=[]
             for i in s:
                  if i in n:
                      1.append(i)
         s=input("Enter a text containing no.: ")
         print(f"Your text contains {no in Text(s)}")
         Enter a text containing no.: nikhil 1032 vishwakarm0 ank0s4 oksb1
         Your text contains ['1', '0', '3', '2', '0', '0', '4', '1']
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In [31]: # 4) write a python f() which recieves variable length arguments to find greate
         # element
         def greatest Element(*t):
             g=max(t[0])
             return g
         s=[int(i) for i in input("Enter no. by giving space:").split()]
         x=greatest Element(s)
         print(f"Greatest no. : {x}")
         Enter no. by giving space:4 5 2 6 9 78 45 123 698 5 4 4 12 36 45
         Greatest no.: 698
 In [1]: |#| 5) write a python f() which takes variable length arguments to recieve string
         # string or strings if multiple strings have the same length
         def max_len_Str(*s):
             k = [len(i) for i in s[0]]
             m=max(k)
             k.clear()
             1=[]
             for i in s[0]:
                 if len(i)==m:
                     1.append(i)
             return 1
         s=input("Enter your text: ").split()
         x=max len Str(s)
         print(f"Maximum Length String is : {x}")
         Enter your text: Nikhil Ankit Ankush Krish Balram Pankaj Shyam Tanish Rahul V
         Maximum Length String is : ['Nikhil', 'Ankush', 'Balram', 'Pankaj', 'Tanish',
         'Vishal']
 In [3]: def func(*t):
             print(t)
         l=[1,2,3,4]
         func(*1)
         (1, 2, 3, 4)
 In [ ]:
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