Programs of Function

In [10]:
```python
# 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 and lcm%b==0)<1:
        x=a
        if x>b:
            x=b
        if x%a==0 and x%b==0:
            lcm=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]:
```python
# 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]:
```python
# 3) write a python f() to find no. in a given text, store no. in a list & retu
def no_in_Text(s):
    n="0123456789"
    l=[]
    for i in s:
        if i in n:
            l.append(i)
    return l
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']
```

```python
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
```

```python
In [32]: # 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)
             l=[]
             for i in s[0]:
                 if len(i)==m:
                     l.append(i)
             k.clear()
             return l

         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
ishal
Maximum Length String is : ['Nikhil', 'Ankush', 'Balram', 'Pankaj', 'Tanish',
'Vishal']
```

```python
In [ ]:
```