



```
AppData/Local/Programs/Python/Python312/rom to int.py (3.12.2)
File Edit Format Run Options Window Help
s=input("ENTER ROMAN NUMBER: ")
                                                                                           → IDLE Shell 3.12.2
                                                                                                                                                                        0
                                                                                          File Edit Shell Debug Options Window Help
                                                                                              Python 3.12.2 (tags/v3.12.2:6abddd9, Feb 6 2024, 21:26:36) [MSC v.1937 64 bit (
rom={'I':1,'V':5,'K':10,'L':50,'C':100,'D':500,'M':1000}
                                                                                             AMD64)] on win32
                                                                                             Type "help", "copyright", "credits" or "license()" for more information.
for i in range(len(s)):
    if i+1<len(s) and rom[s[i]]<rom[s[i+1]]:
                                                                                             = RESTART: C:/Users/praji/AppData/Local/Programs/Python/Python312/rom to int.py
       res-=rom[s[i]]
                                                                                             27
                                                                                         >>>
       res+=rom[s[i]]
                                                                                             = RESTART: C:/Users/praji/AppData/Local/Programs/Python/Python312/rom to int.py
                                                                                             ENTER ROMAN NUMBER: XXVII
print ("THE ROMAN NUMBER IS : ",s)
                                                                                             THE ROMAN NUMBER IS : XXVII
                                                                                             THE INTEGER NUMBER IS : 27
print("THE INTEGER NUMBER IS : ", res)
                                                                                         >>>
                                                                                                                                                                        Ln: 11 Col: 0
                                                                                                                                                                                        Ln: 13 Col: 32
```























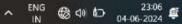




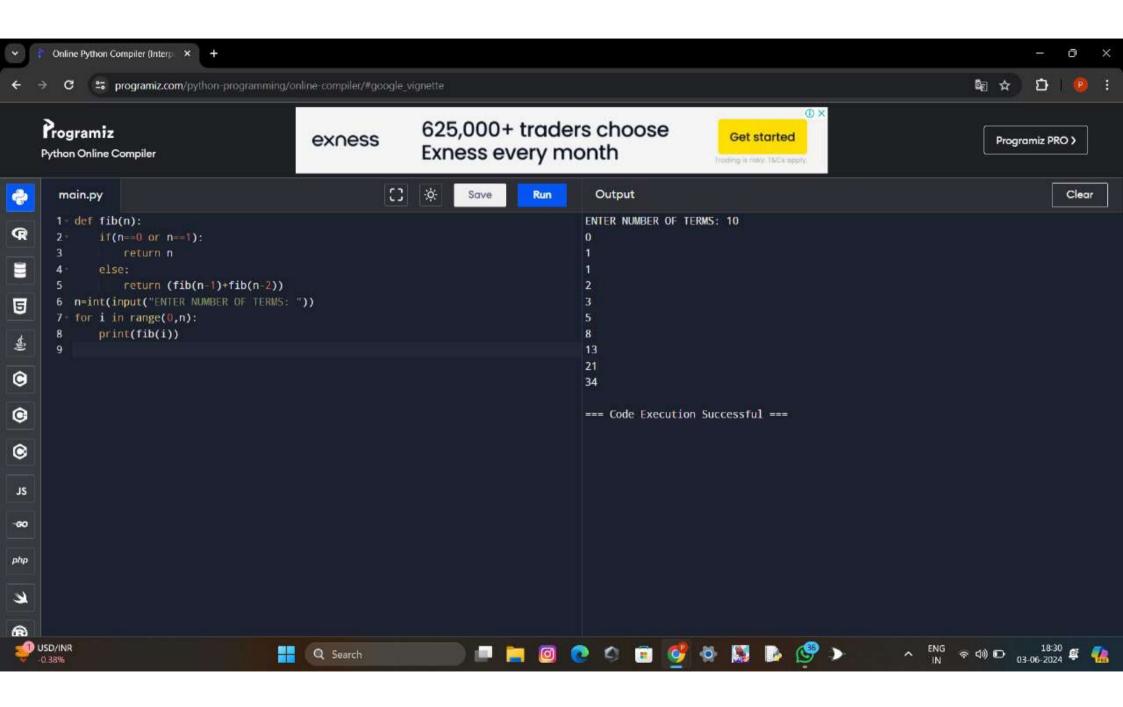


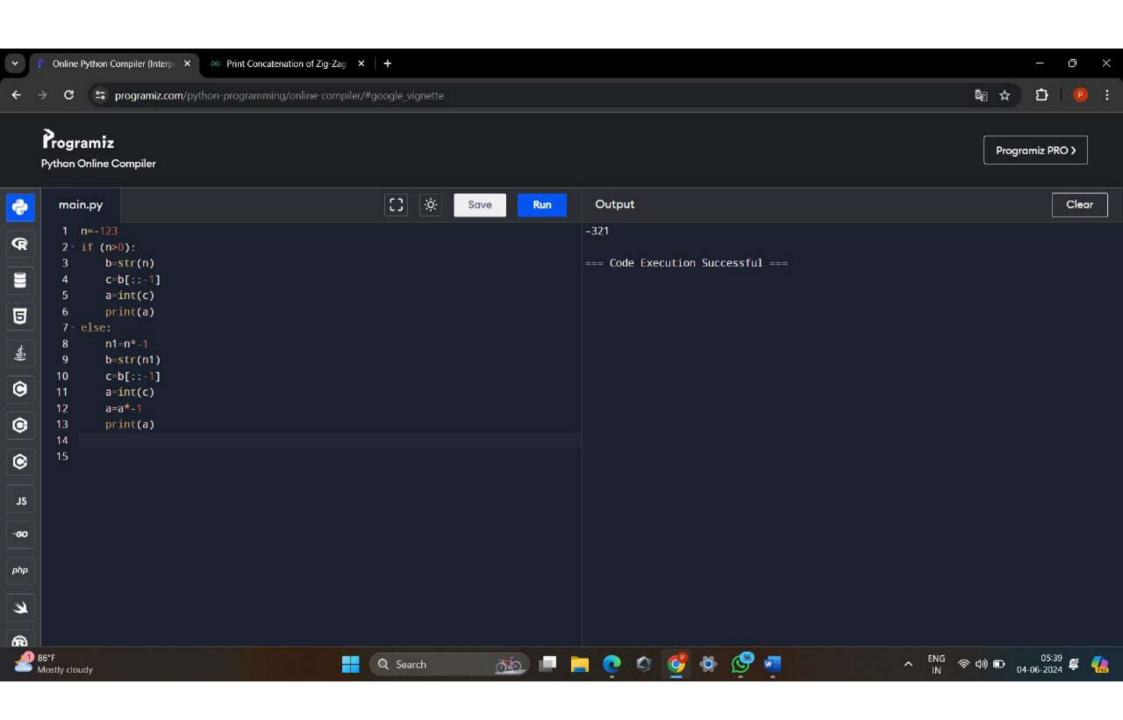


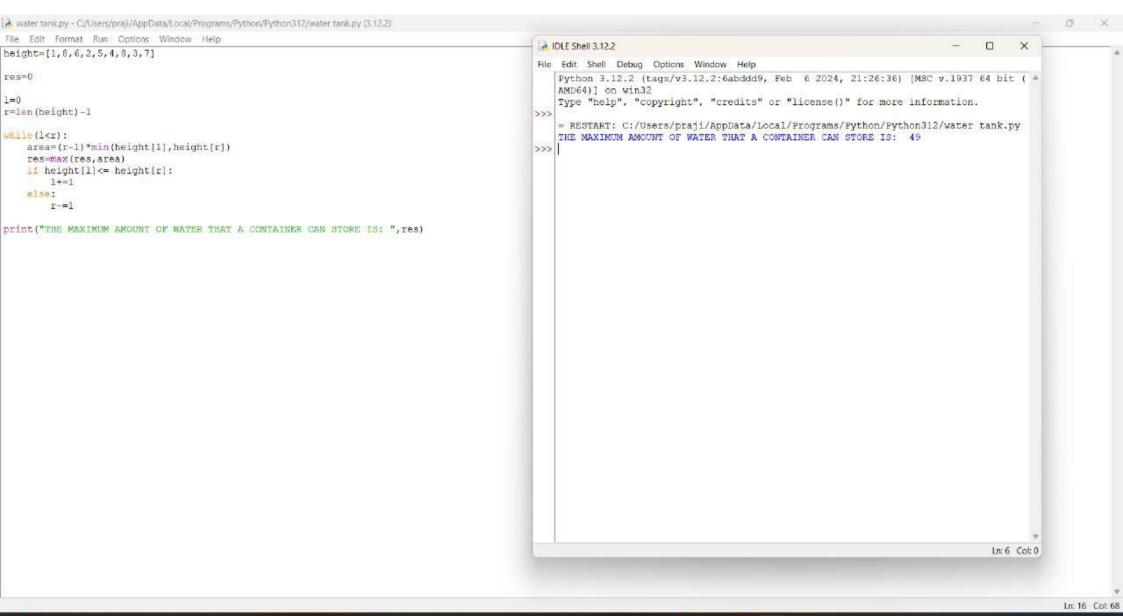






















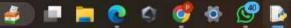














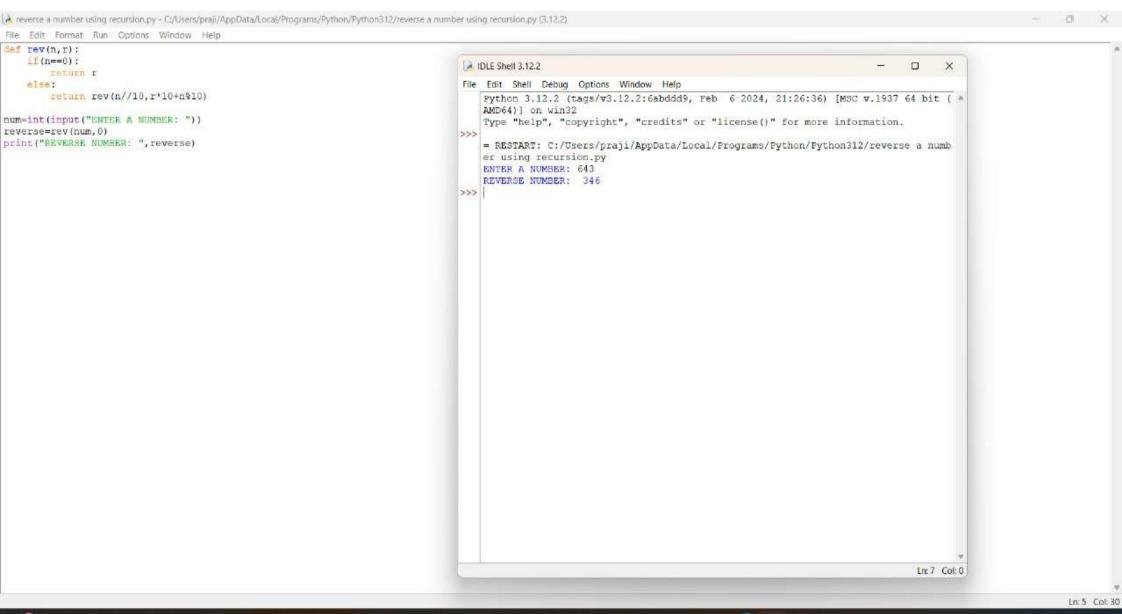










































```
heap sort.py - C:/Users/praji/AppData/Local/Programs/Python/Python312/heap sort.py (3.12.2)
File Edit Format Run Options Window Help
def partition (array, low, high):
   pivot = array[high]
    i = low - 1
                                                                                                  IDLE Shell 3.12.2
                                                                                                                                                                                  for j in range (low, high):
                                                                                                 File Edit Shell Debug Options Window Help
        if array[j] <= pivot:
           i = i + 1
                                                                                                     Python 3.12.2 (tags/v3.12.2:6abddd9, Feb 6 2024, 21:26:36) [MSC v.1937 64 bit ( *
            (array[i], array[i]) = (array[i], array[i])
                                                                                                     AMD64)] on win32
    (array[i + 1], array[high]) = (array[high], array[i + 1])
                                                                                                     Type "help", "copyright", "credits" or "license()" for more information.
    return i + 1
                                                                                                 >>>
                                                                                                     = RESTART: C:/Users/praji/AppData/Local/Programs/Python/Python312/heap sort.py =
                                                                                                     Unsorted Array
def quickSort (array, low, high):
                                                                                                     [1, 7, 4, 1, 10, 9, -2]
    if low < high:
                                                                                                     Sorted Array in Ascending Order:
        pi = partition(array, low, high)
                                                                                                     [-2, 1, 1, 4, 7, 9, 10]
        quickSort(array, low, pi - 1)
        quickSort(array, pi + 1, high)
data = [1, 7, 4, 1, 10, 9, -2]
print ("Unsorted Array")
print (data)
size = len(data)
quickSort(data, 0, size - 1)
print ('Sorted Array in Ascending Order:')
print (data)
                                                                                                                                                                                   Ln: 9 Col: 0
```

































Ln: 15 Col: 37

