

odd and even in a list.py - C:/Users/praji/AppData/Local/Programs/Python/Python312/odd and even in a list.py (3.12.2)

File Edit Format Run Options Window Help

```
def sort(nums):
    odd=[]
    even=[]
    res=[]
    for num in nums:
        if num%2==0:
            even.append(num)
        else:
            odd.append(num)
    for i in range(len(nums)):
        if i%2==0:
            res.append(even.pop())
        else:
            res.append(odd.pop())
    return res
nums=[1,2,6,7]
sorted_num= sort(nums)
print(sorted_num)
```

IDLE Shell 3.12.2

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 (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

>>>

= RESTART: C:/Users/praji/AppData/Local/Programs/Python/Python312/odd and even i
n a list.py

[6, 7, 2, 1]

>>>

Ln: 6 Col: 0

Ln: 12 Col: 34



Hot weather
Now



Search



ENG
IN



13:41
05-06-2024



rom to int.py - C:/Users/praji/AppData/Local/Programs/Python/Python312/rom to int.py (3.12.2)

File Edit Format Run Options Window Help

```
s=input("ENTER ROMAN NUMBER: ")
```

```
res=0
```

```
rom={'I':1,'V':5,'X':10,'L':50,'C':100,'D':500,'M':1000}
```

```
for i in range(len(s)):
    if i+1<len(s) and rom[s[i]]<rom[s[i+1]]:
        res-=rom[s[i]]
    else:
        res+=rom[s[i]]
```

```
print("THE ROMAN NUMBER IS : ",s)
```

```
print("THE INTEGER NUMBER IS : ",res)
```

IDLE Shell 3.12.2

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```
>>>
```

```
= RESTART: C:/Users/praji/AppData/Local/Programs/Python/Python312/rom to int.py
27
```

```
>>>
```

```
= RESTART: C:/Users/praji/AppData/Local/Programs/Python/Python312/rom to int.py
ENTER ROMAN NUMBER: XXVII
THE ROMAN NUMBER IS : XXVII
THE INTEGER NUMBER IS : 27
```

```
>>>
```

Ln: 11 Col: 0

Ln: 13 Col: 32

VIX
+4.50%



Search



ENG
IN



23:06
04-06-2024



main.py

Save

Run

Output

Clear

```
1 def fib(n):
2     if(n==0 or n==1):
3         return n
4     else:
5         return (fib(n-1)+fib(n-2))
6 n=int(input("ENTER NUMBER OF TERMS: "))
7 for i in range(0,n):
8     print(fib(i))
9
```

ENTER NUMBER OF TERMS: 10

0
1
1
2
3
5
8
13
21
34

=== Code Execution Successful ===

main.py

```

1  n=-123
2  if (n>0):
3      b=str(n)
4      c=b[::-1]
5      a=int(c)
6      print(a)
7  else:
8      n1=n*-1
9      b=str(n1)
10     c=b[::-1]
11     a=int(c)
12     a=a*-1
13     print(a)
14
15

```

Save

Run

Output

Clear

-321

```
=== Code Execution Successful ===
```

water tank.py - C:/Users/praji/AppData/Local/Programs/Python/Python312/water tank.py (3.12.2)

File Edit Format Run Options Window Help

```
height=[1,8,6,2,5,4,8,3,7]
```

```
res=0
```

```
l=0
```

```
r=len(height)-1
```

```
while(l<r):
```

```
    area=(r-l)*min(height[l],height[r])
```

```
    res=max(res,area)
```

```
    if height[l]<= height[r]:
```

```
        l+=1
```

```
    else:
```

```
        r-=1
```

```
print("THE MAXIMUM AMOUNT OF WATER THAT A CONTAINER CAN STORE IS: ",res)
```

IDLE Shell 3.12.2

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Python 3.12.2 (tags/v3.12.2:6abddd9, Feb 6 2024, 21:26:36) [MSC v.1937 64 bit (AMD64)] on win32

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```
>>>
```

```
= RESTART: C:/Users/praji/AppData/Local/Programs/Python/Python312/water tank.py
```

```
>>>
```

```
THE MAXIMUM AMOUNT OF WATER THAT A CONTAINER CAN STORE IS: 49
```

Ln: 6 Col: 0

Ln: 16 Col: 68

reverse a number using recursion.py - C:/Users/praji/AppData/Local/Programs/Python/Python312/reverse a number using recursion.py (3.12.2)

File Edit Format Run Options Window Help

```
def rev(n,r):  
    if(n==0):  
        return r  
    else:  
        return rev(n//10,r*10+n%10)  
  
num=int(input("ENTER A NUMBER: "))  
reverse=rev(num,0)  
print("REVERSE NUMBER: ",reverse)
```

IDLE Shell 3.12.2

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 (AMD64)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:/Users/praji/AppData/Local/Programs/Python/Python312/reverse a number using recursion.py  
ENTER A NUMBER: 643  
REVERSE NUMBER: 346  
>>> |
```

Ln: 7 Col: 0

Ln: 5 Col: 30

Hot weather
Now



Search



ENG
IN



12:24
05-06-2024



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
    for j in range(low, high):
        if array[j] <= pivot:
            i = i + 1
            (array[i], array[j]) = (array[j], array[i])
    (array[i + 1], array[high]) = (array[high], array[i + 1])
    return i + 1
```

```
def quickSort(array, low, high):
    if low < high:
        pi = partition(array, low, high)
        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)
```

IDLE Shell 3.12.2

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```
>>>
= RESTART: C:/Users/praji/AppData/Local/Programs/Python/Python312/heap sort.py =
Unsorted Array
[1, 7, 4, 1, 10, 9, -2]
Sorted Array in Ascending Order:
[-2, 1, 1, 4, 7, 9, 10]
```

```
>>>
```

Ln: 9 Col: 0

Ln: 15 Col: 37

USD/JPY
+0.71%

Search

ENG
IN

13:04
05-06-2024

prefix.py - C:/Users/praji/AppData/Local/Programs/Python/Python312/prefix.py (3.12.2)

File Edit Format Run Options Window Help

```
def pre(strs):  
    res=""  
    for i in range(len(strs[0])):  
        for s in strs:  
            if i==len(s) or s[i]!=strs[0][i]:  
                return res  
        res+=strs[0][i]  
    return res
```

```
strs = ["flower","flow","flight"]
```

```
print(pre(strs))
```

IDLE Shell 3.12.2

File Edit Shell Debug Options Window Help

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>>>

= RESTART: C:/Users/praji/AppData/Local/Programs/Python/Python312/prefix.py

f1

>>>

Ln: 6 Col: 0

Ln: 10 Col: 10

87°F
Partly cloudy

Search

ENG
IN

23:30
04-06-2024

main.py

```
1 str = "babad"
2 n = len(str)
3 length = 1
4 start = 0
5 for i in range(n):
6     for j in range(i, n):
7         flag = 1
8         for k in range(0, ((j - i) + 1)):
9             if (str[i + k] != str[j - k]):
10                 flag = 0
11                 if (flag != 0 and (j - i + 1) > length):
12                     start = i
13                     length = j - i + 1
14 print("Longest palindrome substring is: ", end="")
15 for i in range(start, start + length):
16     print(str[i], end="")
17
18
```

Output

Clear

```
Longest palindrome substring is: bab
=== Code Execution Successful ===
```

reversed string.py - C:/Users/praji/AppData/Local/Programs/Python/Python312/reversed string.py (3.12.2)

File Edit Format Run Options Window Help

```
def rev(s):  
    if len(s)==0:  
        return s  
    else:  
        return rev(s[1:])+ s[0]  
s="PRAJIITH"  
print(rev(s))
```

IDLE Shell 3.12.2

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 (AMD64)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:/Users/praji/AppData/Local/Programs/Python/Python312/reversed string.py  
HTIIJARP  
>>>
```

Ln: 6 Col: 0

Ln: 7 Col: 13

98°F
Partly sunny



Search



ENG
IN



13:51
04-06-2024

