https://www.programiz.com/python-programming/online-compiler/

main.py

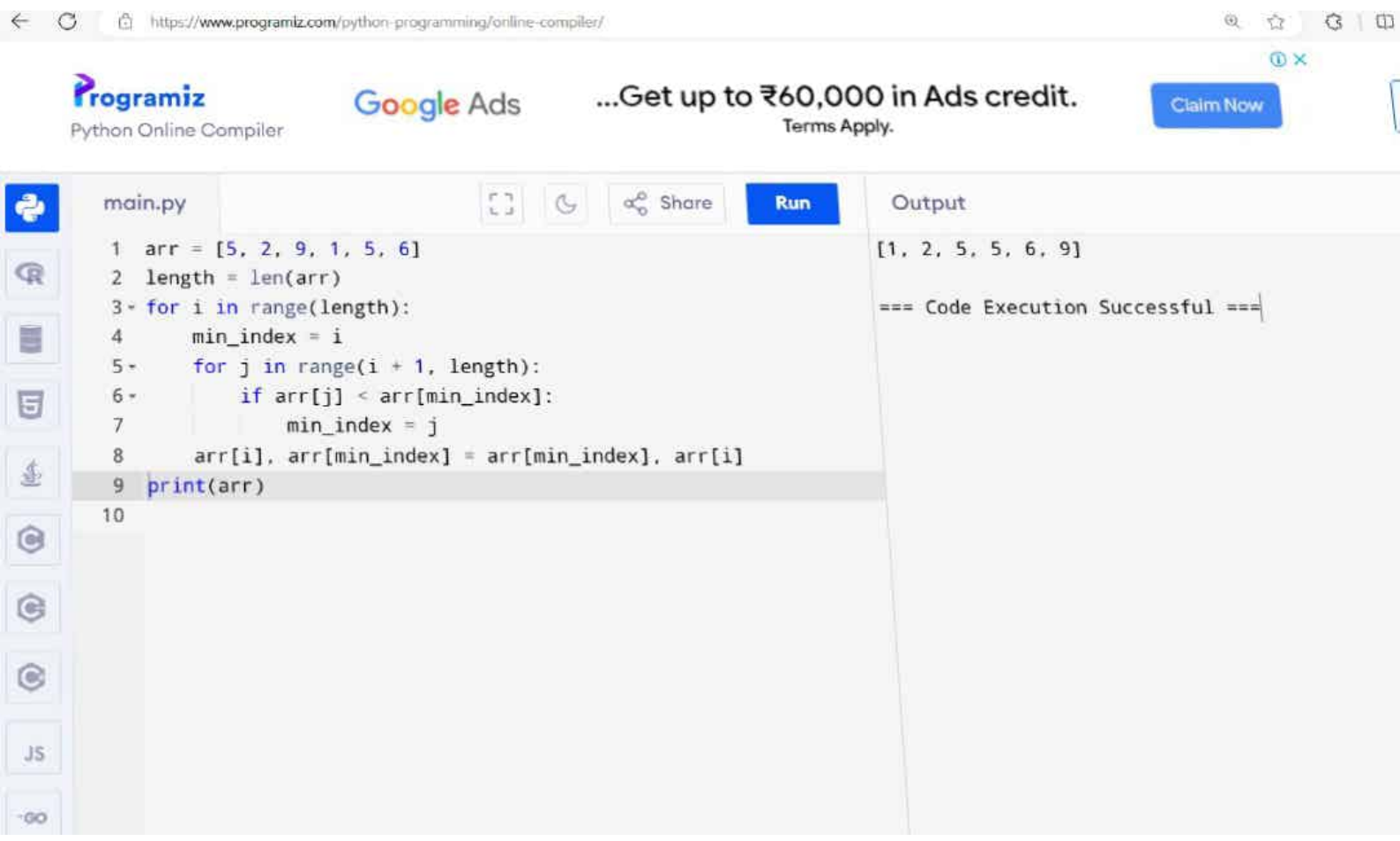
Share | Run

```
1 def process_list(lst):
2     return sorted(lst)
3 print(process_list([]))
4 print(process_list([1]))
5 print(process_list([7, 7, 7, 7]))
6 print(process_list([-5, -1, -3, -2, -4]))
7
```

Output | Clear

```
[]
[1]
[7, 7, 7, 7]
[-5, -4, -3, -2, -1]

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


https://www.programiz.com/python-programming/online-compiler/
Programiz
Python Online Compiler
Google Ads
...Get up to ₹60,000 in Ads credit.
Terms Apply.
Claim Now
main.py
Share
Run
Output
arr = [5, 2, 9, 1, 5, 6]
length = len(arr)
for i in range(length):
min_index = i
for j in range(i + 1, length):
if arr[j] < arr[min_index]:
min_index = j
arr[i], arr[min_index] = arr[min_index], arr[i]
print(arr)
[1, 2, 5, 5, 6, 9]
=== Code Execution Successful ===

https://www.programiz.com/python-programming/online-compiler/

main.py

Share | Run

```python
def bubble_sort_optimized(arr):
    n = len(arr)
    for i in range(n):
        swapped = False
        for j in range(0, n - i - 1):
            if arr[j] > arr[j + 1]:
                arr[j], arr[j + 1] = arr[j + 1], arr[j]
                swapped = True
        if not swapped:
            break
    return arr
print(bubble_sort_optimized([64, 25, 12, 22, 11]))
```

Output | Clear

```
[11, 12, 22, 25, 64]

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

https://www.programiz.com/python-programming/online-compiler/

main.py

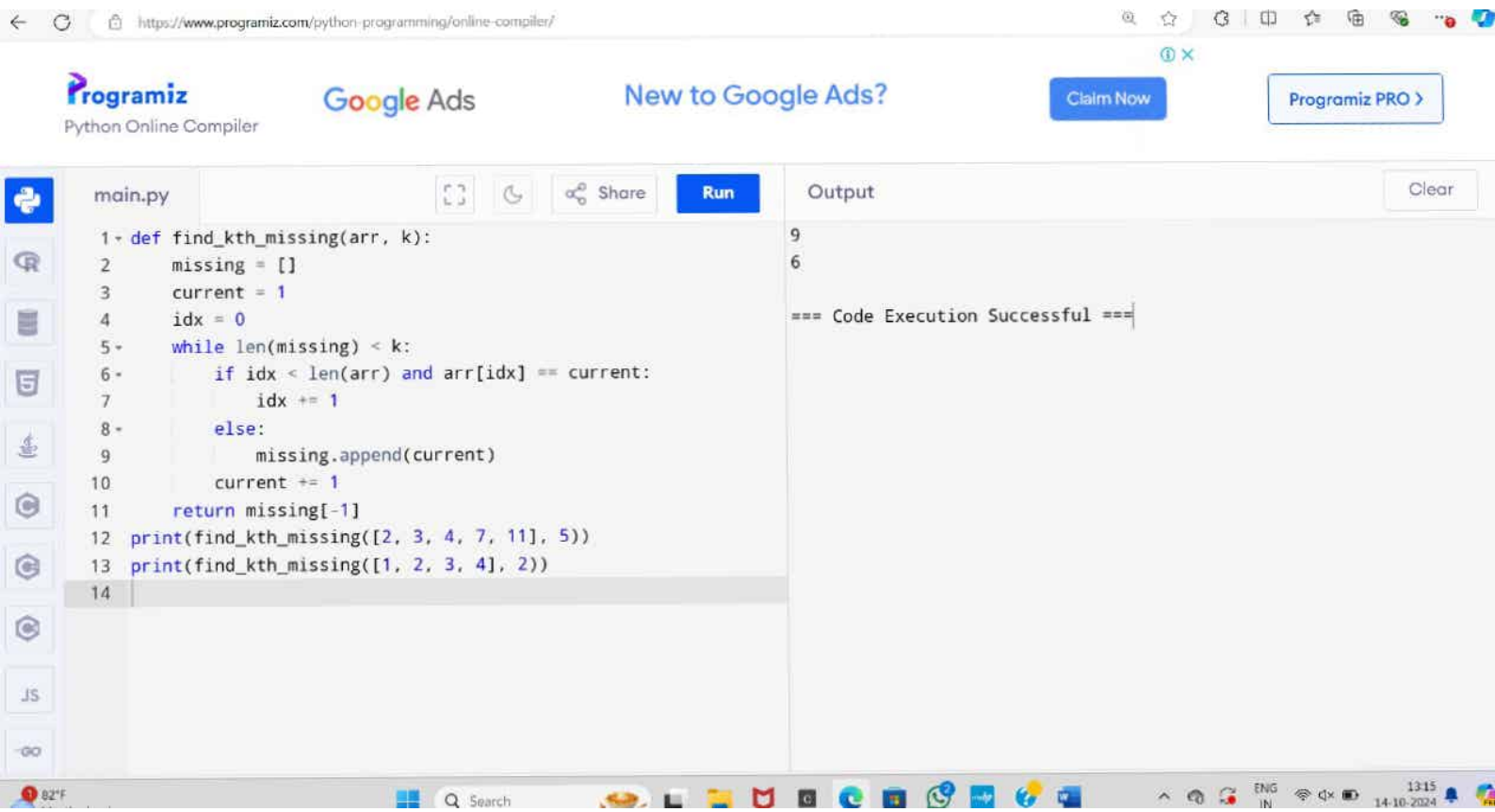
Share Run

```
def insertion_sort(arr):
    for i in range(1, len(arr)):
        key = arr[i]
        j = i - 1
        while j >= 0 and key < arr[j]:
            arr[j + 1] = arr[j]
            j -= 1
        arr[j + 1] = key
    return arr
print(insertion_sort([3, 1, 4, 1, 5, 9, 2, 6, 5, 3]))
print(insertion_sort([5, 5, 5, 5, 5]))
print(insertion_sort([2, 3, 1, 3, 2, 1, 1, 3]))
```

Output Clear

```
[1, 1, 2, 3, 3, 4, 5, 5, 6, 9]
[5, 5, 5, 5, 5]
[1, 1, 1, 2, 2, 3, 3, 3]

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


https://www.programiz.com/python-programming/online-compiler/
Programiz
Python Online Compiler
Google Ads
New to Google Ads?
Claim Now
Programiz PRO
main.py
Share
Run
Output
Clear
def find_kth_missing(arr, k):
missing = []
current = 1
idx = 0
while len(missing) < k:
if idx < len(arr) and arr[idx] == current:
idx += 1
else:
missing.append(current)
current += 1
return missing[-1]
print(find_kth_missing([2, 3, 4, 7, 11], 5))
print(find_kth_missing([1, 2, 3, 4], 2))
9
6
=== Code Execution Successful ===
Search
ENG
IN
13:15
14-10-2024

https://www.programiz.com/python-programming/online-compiler/

main.py

Share | Run

```
def find_peak_element(nums):
    low, high = 0, len(nums) - 1
    while low < high:
        mid = (low + high) // 2
        if nums[mid] < nums[mid + 1]:
            low = mid + 1
        else:
            high = mid
    return low
print(find_peak_element([1, 2, 3, 1]))
```

Output | Clear

```
2

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

https://www.programiz.com/python-programming/online-compiler/

Programiz
Python Online Compiler

main.py

Share Run

```
1 def str_str(haystack, needle):
2     return haystack.find(needle)
3 print(str_str("sadbutsad", "sad"))
4 print(str_str("leetcode", "leeto"))
5
```

Output

```
0
-1

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

https://www.programiz.com/python-programming/online-compiler/

Programiz
Python Online Compiler

Programiz PRO >

main.py | Share | Run

```
1  def find_substrings(words):
2      result = []
3      for i in range(len(words)):
4          for j in range(len(words)):
5              if i != j and words[i] in words[j]:
6                  result.append(words[i])
7                  break
8      return result
9  print(find_substrings(["mass","as","hero","superhero"]))
10 print(find_substrings(["leetcode","et","code"]))
11 print(find_substrings(["blue","green","bu"]))
12
```

Output | Clear

```
['as', 'hero']
['et', 'code']
[]

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