

EXPERIMENT-3

SUM OF THE SQUARES OF DISTINCT COUNTS OF ALL SUBARRAYS OF NUMS

PROGRAM:

The screenshot shows the Programiz Python Online Compiler interface. The code file is named 'main.py' and contains the following Python code:

```
1  nums = [1, 2, 1]
2  total = 0
3  for i in range(len(nums)):
4      for j in range(i, len(nums)):
5          sub = nums[i:j+1]
6          distinct = len(set(sub))
7          total += distinct ** 2
8  print(total)
9
10
11
```

The interface includes a 'Run' button and other standard compiler controls.

OUTPUT:

The screenshot shows the output window of the compiler. It displays the output of the executed code:

```
Output
15
==== Code Execution Successful ===
```