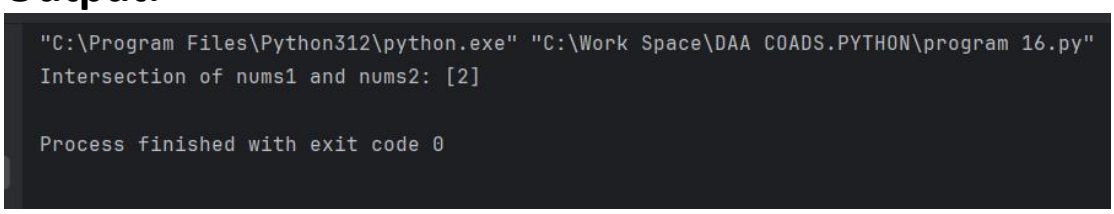
16. Given two integer arrays nums1 and nums2, return an array of their Intersection. Each element in the result must be unique and you may return the result in any order.

Program:

```
def intersection(nums1, nums2):
    # Convert arrays to sets for faster lookup
    set1 = set(nums1)
    set2 = set(nums2)

    # Find the intersection of the sets
    intersection_set = set1.intersection(set2)

    # Convert the intersection set back to a list
    intersection_list = list(intersection_set)

    return intersection_list

# Example usage
nums1 = [1, 2, 2, 1]
nums2 = [2, 2]
result = intersection(nums1, nums2)
print("Intersection of nums1 and nums2:", result)
```

Output:



Time complexity:

O(n+k)