Company-Level Python Programs

# Program 1: Check if a Number is Prime

Problem:  
Write a program to check whether a given number is prime or not.

Code:

num = int(input("Enter a number: "))  
count = 0  
  
for i in range(1, num+1):  
 if num % i == 0:  
 count += 1  
  
if count == 2:  
 print(f"{num} is a Prime Number")  
else:  
 print(f"{num} is Not a Prime Number")

Test Cases:

|  |  |
| --- | --- |
| Input | Output |
| 7 | 7 is a Prime Number |
| 10 | 10 is Not a Prime Number |

# Program 2: Find Largest Element in a List

Problem:  
Write a program to find the largest number in a list of numbers.

Code:

numbers = []  
for i in range(5):  
 numbers.append(int(input(f"Enter number {i+1}: ")))  
  
maximum = numbers[0]  
  
for num in numbers:  
 if num > maximum:  
 maximum = num  
  
print("Largest number is:", maximum)

Test Cases:

|  |  |
| --- | --- |
| Input (List) | Output |
| 12, 45, 23, 89, 34 | Largest number is: 89 |
| 7, 2, 18, 5, 9 | Largest number is: 18 |