**Ex2:**

**Program:**

public class PrimeTest {

static boolean isPrime(int n) {

if (n < 2) return false;

for (int i = 2; i <= Math.sqrt(n); i++)

if (n % i == 0) return false;

return true;

}

public static void main(String[] args) {

int[] testCases = {2, 15, 17, 1, 0};

for (int n : testCases)

System.out.println("Input " + n + " → Output: " + (isPrime(n) ? "Prime" : "Not Prime"));

}

}

**Output  
A screenshot of a computer

Description automatically generated**