PROJECT

Prime number Checker

MUZAFFAR

Slide1.Prime Number Checker

A simple program to check if a number is prime and list primes up to a given number.

Language C++

Slide2: Prime Number

A prime number is a number greater than 1 that has no divisors other than 1 and itself.

Examples: 2, 3, 5, 7, 11, 13, …

Non-prime examples: 4, 6, 8, 9, 12

☐ 3: Program Features

1. Check if a number is prime

Input: Any positive number.

Output: "Prime" or "Not Prime."

2. List all prime numbers up to a given limit

Input: A number.

Output: All prime up to that number.

Slide 4: Code: Prime Listing

```
for (int i = 2; i <= limit; i++) {
```

```cpp
    if (isPrime(i)) {

        cout << i << " ";

    }

}
```

Loop through all numbers up to the limit

Print numbers that are prime.

Slide 5: Example Output

Input:

Number to check: 7

Limit for primes: 10

Output:

7 is a prime number.

Prime numbers up to 10: 2 3 5 7