Que 1 - Check if a Number is Prime

Code -

```
Check if a Number is Prime.cpp
      #include <iostream>
      #include <cmath>
      bool isPrime(int n) {
          if (n <= 1) {
              return false;
          for (int i = 2; i <= std::sqrt(n); ++i) {
              if (n % i == 0) {
                  return false;
          return true;
      int main() {
          int number;
          std::cout << "Enter a number: ";</pre>
          std::cin >> number;
          if (isPrime(number)) {
              std::cout << number << " is a prime number." << std::endl;</pre>
              std::cout << number << " is not a prime number." << std::endl;</pre>
          return 0;
28
```

Output

```
Output

Enter a number: 4
4 is not a prime number.
```

Que2 - Print Multiplication Table of a Number

Code

```
Output

Enter a number: 4

4 x 1 = 4

4 x 2 = 8

4 x 3 = 12

4 x 4 = 16

4 x 5 = 20

4 x 6 = 24

4 x 7 = 28

4 x 8 = 32

4 x 9 = 36

4 x 10 = 40
```

```
up to iv.cpp
             Check if a Number is Prime.cpp
  Print Odd Numbers up to N.cpp
        #include <iostream>
         using namespace std;
         int main() {
             int n;
             cout << "Enter a number: ";</pre>
             cin >> n;
             for (int i = 1; i <= n; i++) {
    9
                 if (i % 2 != 0) {
                     cout << i << " ";
   11
   12
   13
            return 0;
   15
```

```
Output

Enter a number: 7
1 3 5 7
=== Code Execution Successful ===
```

Que 4 - Sum of Natural Numbers up to N

```
C Sum of Natural Numbers up to N.cpp

#include <iostream>
using namespace std;

int main() {

int n;
cout << "Enter a positive integer: ";
cin >> n;

if (n > 0) {

int sum = n * (n + 1) / 2;

cout << "Sum of natural numbers from 1 to " << n << " is: " << sum << endl;
} else {

cout << "Please enter a positive integer." << endl;
}

return 0;

return 0;
```

```
Enter a positive integer: 4

Sum of natural numbers from 1 to 4 is: 10

=== Code Execution Successful ===
```

Que 5 Sum of Odd Numbers up to N.cpp

```
Enter a number: 5
Sum of odd numbers up to 5 is: 9

--- Code Execution Successful ---
```