

Romaisa afridi  
sap ID: 62691

```
#include <iostream>
using namespace std;
void displayTable(int number) {
    cout << "Multiplication Table for " << number << ":\n";
    for (int i = 1; i <= 10; i++) {
        cout << number << " x " << i << " = " << number * i << endl;
    }
}
int main() {
    int num;

    cout << "Enter a number to generate its multiplication table: ";
    cin >> num;

    displayTable(num);

    return 0;
}
```

C:\Users\Tariq Mehmood\Desktop\TASK 1.exe

Enter a number to generate its multiplication table: 7  
Multiplication Table for 7:  
7 x 1 = 7  
7 x 2 = 14  
7 x 3 = 21  
7 x 4 = 28  
7 x 5 = 35  
7 x 6 = 42  
7 x 7 = 49  
7 x 8 = 56  
7 x 9 = 63  
7 x 10 = 70

-----  
Process exited after 2.916 seconds with return value 0  
Press any key to continue . . .

Compile Log Debug Find Results Console Close

- Output Filename: C:\Users\Tariq Mehmood\Desktop\TASK 1.exe  
- Output Size: 2.9887909753410 MiB  
- Compilation Time: 1.11s

```
#include <iostream>
using namespace std;
bool isPrime(int number) {
    if (number <= 1)
        return false;

    for (int i = 2; i <= number / 2; i++) {
        if (number % i == 0)
            return false;
    }
    return true;
}
int main() {
    int num;

    cout << "Enter a number: ";
    cin >> num;

    if (isPrime(num))
        cout << num << " is a prime number.\n";
    else
        cout << num << " is not a prime number.\n";

    return 0;
}
```

C:\Users\Tariq Mehmood\Desktop\TASK 2.exe

Enter a number: 6  
6 is not a prime number.

-----  
Process exited after 1.981 seconds with return value 0  
Press any key to continue . . .

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- Output Filename: C:\Users\Tariq Mehmood\Desktop\TASK 2.exe  
- Output Size: 2.9885835647583 MiB  
- Compilation Time: 1.23s

```
#include <iostream>
using namespace std;
double mean(int a, int b, int c) {
    return (a + b + c) / 3.0;
}

int main() {
    int num1, num2, num3;

    cout << "Enter three numbers: ";
    cin >> num1 >> num2 >> num3;

    double result = mean(num1, num2, num3);

    cout << "The arithmetic mean is: " << result << endl;

    return 0;
}
```

C:\Users\Tariq Mehmood\Desktop\TASK 3.exe

Enter three numbers: 5  
6  
7  
The arithmetic mean is: 6  
-----  
Process exited after 3.35 seconds with return value  
Press any key to continue . . .

es Compile Log Debug Find Results Console Close

- Output Filename: C:\Users\Tariq Mehmood\Desktop\TASK 3.exe
- Output Size: 2.98876762390137 MiB
- Compilation Time: 1.17s

```
#include <iostream>
using namespace std;
void printTempOpinion(int temperature) {
    if (temperature < 10) {
        cout << "Cold" << endl;
    } else if (temperature >= 20 && temperature <= 30) {
        cout << "OK" << endl;
    } else if (temperature > 30) {
        cout << "Hot" << endl;
    }
}

int main() {
    int temp;

    cout << "Enter the temperature: ";
    cin >> temp;

    printTempOpinion(temp);

    return 0;
}
```

C:\Users\Tariq Mehmood\Desktop\TASK 4.exe

Enter the temperature: 67  
Hot  
-----  
Process exited after 3.145 seconds with return value 0  
Press any key to continue . . .

es Compile Log Debug Find Results Console Close

- Output Filename: C:\Users\Tariq Mehmood\Desktop\TASK 4.exe
- Output Size: 2.98878860473633 MiB
- Compilation Time: 1.17s