#include <iostream>

**Task 1: Working with Different Data Types**

using namespace std;

int main()

{

    int num = 10;

    float decimal = 5.7;

    char letter = 'A';

    bool isTrue = true;

    cout << "Integer: " << num << endl;

    cout << "Float: " << decimal << endl;

    cout << "Character: " << letter << endl;

    cout << "Boolean: " << (isTrue ? "true" : "false") << endl;

    return 0;

}

**OUTPUT:**

**Integer: 10**

**Float: 5.7**

**Character: A**

**Boolean: true**

 // Take input from the user

**Task 2: Taking Input from the User**

 #include <iostream>

using namespace std;

int main()

{

    int num;

    float decimal;

    char letter;

    cout << "Enter an integer: ";

    cin >> num;

    cout << "Enter a float: ";

    cin >> decimal;

    cout << "Enter a character: ";

    cin >> letter;

    cout << "You entered integer: " << num << endl;

    cout << "You entered float: " << decimal << endl;

    cout << "You entered character: " << letter << endl;

    return 0;

}

**OUTPUT:**

**Enter an integer: 25**

**Enter a float: 4.56**

**Enter a character: Z**

**You entered integer: 25**

**You entered float: 4.56**

**You entered character: Z**

**Task 3: Using Assignment Operators**

#include <iostream>

using namespace std;

int main() {

    int number = 10;

    number += 5;

    number -= 2;

    number \*= 3;

    number /= 4;

    number %= 2;

    cout << "Final value of number: " << number << endl;

    return 0;

}

**OUTPUT:**

**Final value of number: 1**

#include <iostream>

**Task 4: Logical Operators with Boolean Values**

using namespace std;

int main() {

    bool isHot = true;

    bool isSunny = false;

    cout << "isHot AND isSunny: " << (isHot && isSunny) << endl;

    cout << "isHot OR isSunny: " << (isHot || isSunny) << endl;

    cout << "NOT isHot: " << (!isHot) << endl;

    return 0;

}

**OUTPUT:**

isHot AND isSunny: 0

isHot OR isSunny: 1

NOT isHot: 0

 #include <iostream>

**Task 5: Comparison Operators with User Input**

using namespace std;

int main() {

    int a, b;

    cout << "Enter two integers: ";

    cin >> a >> b;

    cout << "a == b: " << (a == b) << endl;

    cout << "a != b: " << (a != b) << endl;

    cout << "a > b: " << (a > b) << endl;

    cout << "a < b: " << (a < b) << endl;

    cout << "a >= b: " << (a >= b) << endl;

    cout << "a <= b: " << (a <= b) << endl;

    return 0;

}

**OUTPUT:**

Enter two integers: 7 5

a == b: 0

a != b: 1

a > b: 1

a < b: 0

a >= b: 1

a <= b: 0

**Task 6: Using Ternary Operator**

#include <iostream>

using namespace std;

int main()

{

    int num;

    cout << "Enter an integer: ";

    cin >> num;

    string result = (num % 2 == 0) ? "Even" : "Odd";

    cout << "The number is " << result << endl;

    return 0

}

**OUTPUT:**

**Enter an integer: 7**

**The number is Odd**

**Enter an integer: 8**

**The number is Even**

 #include <iostream>

**Task 07: Finding area of a rectangle**

using namespace std;

int main() {

    int length = 10;

    int width = 5;

    int area;

    area = length \* width;

    cout << "The area of the garden is " << area << " square meters." << endl;

    return 0;

}

**OUTPUT:**

**The area of the garden is 50 square meters.**

**\*\*\*THE END\*\*\***