**1.Program** **to determine the integer is odd or even**

**Code:**

#include <iostream>

using namespace std;

int main() {

int n;

cout << "Enter an integer: ";

cin >> n;

if ( n % 2 == 0)

cout << n << " is even.";

else

cout << n << " is odd.";

return 0;

}

**Output:**

Enter an integer: 23

23 is odd.

**2.**  **Program to compute the average of three integers**

**Code:**

#include <iostream>

using namespace std;

int main()

{

float first, second, third, sum, avg;

cout << "Enter the first number: " << endl;

cin >> first;

cout << "Enter the second number: " << endl;

cin >> second;

cout << "Enter the third number: " << endl;

cin >> third;

sum = first + second + third;

avg = sum / 3;

cout << "Average value: " << avg << endl;

return 0;

}

**Output:**

Enter the first number:

12

Enter the second number:

33

Enter the third number:

11

Average value: 18.6667

**3. Program to check two numbers are equal or not**

**Code:**

#include <iostream>

using namespace std;

int main() {

int num1, num2;

cout << "Enter the first number: ";

cin >> num1;

cout << "Enter the second number: ";

cin >> num2;

if (num1 == num2) {

cout << "The numbers are equal." << endl;

} else {

cout << "The numbers are not equal." << endl;

}

return 0;

}

**Output:**

Enter the first number: 44

Enter the second number: 5

The numbers are not equal**.**

**4.Write a program to read in two Floating numbers and  
perform the following operations on them: addition, subtraction,  
multiplication, division, and modulo.**

**Code:**

**Addition:**

#include <iostream>

using namespace std;

int main() {

float num1, num2, sum;

cout << "Enter the first floating-point number: ";

cin >> num1;

cout << "Enter the second floating-point number: ";

cin >> num2;

sum = num1 + num2;

cout << "The sum of " << num1 << " and " << num2 << " is: " << sum << endl;

return 0;

}

**Output:**

Enter the first floating-point number: 23

Enter the second floating-point number: 4

The sum of 23 and 4 is: 27

**Subtraction:**

#include <iostream>

using namespace std;

int main() {

float num1, num2, difference;

cout << "Enter the first floating-point number: ";

cin >> num1;

cout << "Enter the second floating-point number: ";

cin >> num2;

difference = num1 - num2;

cout << "The difference of " << num1 << " and " << num2 << " is: " << difference << endl;

return 0;

}

**Output:**

Enter the first floating-point number: 99

Enter the second floating-point number: 8

The difference of 99 and 8 is: 91

**Multiplication:**

#include <iostream>

using namespace std;

int main() {

float num1, num2, product;

cout << "Enter the first floating-point number: ";

cin >> num1;

cout << "Enter the second floating-point number: ";

cin >> num2;

product = num1 \* num2;

cout << "The product of " << num1 << " and " << num2 << " is: " << product << endl;

return 0;

}

**Output:**

Enter the first floating-point number: 45

Enter the second floating-point number: 5

The product of 45 and 5 is: 225

**Division:**

#include <iostream>

using namespace std;

int main() {

float num1, num2, quotient;

cout << "Enter the first floating-point number: ";

cin >> num1;

cout << "Enter the second floating-point number: ";

cin >> num2;

if (num2 != 0) {

quotient = num1 / num2;

cout << "The quotient of " << num1 << " divided by " << num2 << " is: " << quotient << endl;

} else {

cout << "Error! Division by zero is undefined." << endl;

}

return 0;

}

**Output:**

Enter the first floating-point number: 8

Enter the second floating-point number: 9

The quotient of 8 divided by 9 is: 0.888889

**5.  Program to check the character is a vowel or consonant**

**Code:**

#include <iostream>

using namespace std;

int main() {

char ch;

cout << "Enter a character: ";

cin >> ch;

ch = tolower(ch);

if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u') {

cout << "The character '" << ch << "' is a vowel." << endl;

}

else if (ch >= 'a' && ch <= 'z') {

cout << "The character '" << ch << "' is a consonant." << endl;

}

else {

cout << "Invalid input! Please enter a lowercase letter." << endl;

}

return 0;

}

**Output:**

Enter a character: anshu

The character 'a' is a vowel.

**6.Program to check the number is positive, negative or  
zero**

**Code:**

#include <iostream>

using namespace std;

int main() {

int number;

cout << "Enter a number: ";

cin >> number;

if (number > 0) {

cout << "The number is positive." << endl;

}

else if (number < 0) {

cout << "The number is negative." << endl;

}

else {

cout << "The number is zero." << endl;

}

return 0;

}

**Output:**

Enter a number: 22

The number is positive.

**7.Program to determine which number is greater among two  
integers**

**Code:**

#include <iostream>

using namespace std;

int main() {

int num1, num2;

cout << "Enter the first integer: ";

cin >> num1;

cout << "Enter the second integer: ";

cin >> num2;

int maxNumber = (num1 > num2) ? num1 : num2;

cout << "The greater number is: " << maxNumber << endl;

return 0;

}

**Output:**

Enter the first integer: 34

Enter the second integer: 4

The greater number is: 34