1. Find the Largest Number:

This problem asks you to take three numbers as input and find the largest among them.

Solution:

```
#include <iostream>

using namespace std;

int main() {
  int a, b, c;
  cout << "Enter three numbers: ";
  cin >> a >> b >> c;

  if (a >= b && a >= c) {
    cout << a << " is the largest number." << endl;
  } else if (b >= a && b >= c) {
    cout << b << " is the largest number." << endl;
  } else {
    cout << c << " is the largest number." << endl;
  }

  return 0;
}
```

2. Calculate the Average of Two Numbers:

This problem asks you to take two numbers as input and find their average.

Solution:

```
#include <iostream>

using namespace std;

int main() {
  int a, b;
  cout << "Enter two numbers: ";
  cin >> a >> b;

  float average = (float)(a + b) / 2;
  cout << "The average is: " << average << endl;

  return 0;
}
```

3. Find Sum, Difference, Product, and Quotient of Two Numbers:

This problem asks you to take two numbers as input and find their sum, difference, product, and quotient (division).

Solution:

```
#include <iostream>

using namespace std;

int main() {
  int a, b;
  cout << "Enter two numbers: ";
  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;

  return 0;
}
```

4. Check if a Number is an Integer:

This problem asks you to take a number as input and check if it's a whole number (integer).

Solution:

```
#include <iostream>

using namespace std;

int main() {
  int n;
  cout << "Enter a number: ";
  cin >> n;

  if (n % 1 == 0) {
    cout << n << " is an integer." << endl;
  } else {
    cout << n << " is not an integer." << endl;
  }

  return 0;
}
```

5. Compare Two Numbers:

This problem asks you to take two numbers as input and compare them to see if one is greater than, less than, or equal to the other.

Solution:

```
#include <iostream>

using namespace std;

int main() {
  int a, b;
  cout << "Enter two numbers: ";
  cin >> a >> b;

  if (a > b) {
    cout << a << " > " << b << endl;
  } else if (a < b) {
    cout << a << " < " << b << endl;
  } else {
    cout << a << " == " << b << endl;
  }

  return 0;
}
```

MARUF HASAN
SOFTWARE ENGINEER L- I
VIVASOFT LIMITED