Questions

1. Write a program that takes in three integers and determines the maximum.
2. Write a program that takes any random integer between 1 and 1000 (both exclusive), sum them up and display the result
3. Write a program that takes two integers, multiplies them without using the multiplication operator and displays the result.

Solutions

Find the Maximum of Three Integers

1. Start the program.
2. Ask the user to enter three numbers (let's call them **number1**, **number2**, and **number3**).
3. Check if **number1** is bigger than both **number2** and **number3**:
   - If yes, **number1** is the biggest.
4. If not, check if **number2** is bigger than both **number1** and **number3**:
   - If yes, **number2** is the biggest.
5. If neither **number1** nor **number2** is the biggest, then **number3** must be the biggest.
6. Print out the largest number.
7. End the program.

Sum Random Integers Between 1 and 1000

1. Start the program.
2. Set a total sum to 0.
3. Keep generating random numbers between 2 and 999 (because 1 and 1000 are excluded).
4. Every time a random number is generated, add that number to the total sum.
5. Continue adding random numbers until you decide to stop or reach a certain limit.
6. After finishing, display the total sum of all the random numbers.
7. End the program.

Multiply Two Integers Without Using the Multiplication Operator

1. Start the program.
2. Ask the user to enter two numbers (let's call them number1 and number2).
3. Set the result to 0.
4. If number2 is positive:
   - Add number1 to the result repeatedly, the same number of times as the value of number2.
5. If number2 is negative:
   - First, convert it to a positive number.
   - Add number1 the same number of times as the absolute value of number2, but then make the final result negative.
6. After the repeated addition is done, print the result.
7. End the program.