BRANCHES AND LOOPS in C#

int a = 5;

int b = 6;

if (a + b > 10)

Console.WriteLine("The answer is greater than 10.");

Output:The answer is greater than 10

int a = 5;

int b = 3;

if (a + b > 10)

Console.WriteLine("The answer is greater than 10.");

Output: No Output

int a = 5;

int b = 3;

if (a + b > 10)

Console.WriteLine("The answer is greater than 10");

else

Console.WriteLine("The answer is not greater than 10");

Output:The answer is not greater than 10

int a = 5;

int b = 3;

if (a + b > 10)

{

Console.WriteLine("The answer is greater than 10");

}

else

{

Console.WriteLine("The answer is not greater than 10");

}

Output:The answer is not greater than 10

int a = 5;

int b = 3;

int c = 4;

if ((a + b + c > 10) && (a == b))

{

Console.WriteLine("The answer is greater than 10");

Console.WriteLine("And the first number is equal to the second");

}

else

{

Console.WriteLine("The answer is not greater than 10");

Console.WriteLine("Or the first number is not equal to the second");

}

Output:The answer is not greater than 10

Or the first number is not equal to the second

int a = 5;

int b = 3;

int c = 4;

if ((a + b + c > 10) || (a == b))

{

Console.WriteLine("The answer is greater than 10");

Console.WriteLine("Or the first number is equal to the second");

}

else

{

Console.WriteLine("The answer is not greater than 10");

Console.WriteLine("And the first number is not equal to the second");

}

Output:The answer is not greater than 10

Or the first number is equal to the second

int counter = 0;

while (counter < 10)

{

Console.WriteLine($"Hello World! The counter is {counter}");

counter++;

}

Output:Hello World! The counter is 0

Hello World! The counter is 1

Hello World! The counter is 2

Hello World! The counter is 3

Hello World! The counter is 4

Hello World! The counter is 5

Hello World! The counter is 6

Hello World! The counter is 7

Hello World! The counter is 8

Hello World! The counter is 9

int counter = 0;

do

{

Console.WriteLine($"Hello World! The counter is {counter}");

counter++;

} while (counter < 10);

Output:

Hello World! The counter is 0

Hello World! The counter is 1

Hello World! The counter is 2

Hello World! The counter is 3

Hello World! The counter is 4

Hello World! The counter is 5

Hello World! The counter is 6

Hello World! The counter is 7

Hello World! The counter is 8

Hello World! The counter is 9

for(int counter = 0; counter < 10; counter++)

{

Console.WriteLine($"Hello World! The counter is {counter}");

}

Output:

Hello World! The counter is 0

Hello World! The counter is 1

Hello World! The counter is 2

Hello World! The counter is 3

Hello World! The counter is 4

Hello World! The counter is 5

Hello World! The counter is 6

Hello World! The counter is 7

Hello World! The counter is 8

Hello World! The counter is 9

for (int row = 1; row < 11; row++)

{

Console.WriteLine($"The row is {row}");

}

Output:The row is 1

The row is 2

The row is 3

The row is 4

The row is 5

The row is 6

The row is 7

The row is 8

The row is 9

The row is 10

for (char column = 'a'; column < 'k'; column++)

{

Console.WriteLine($"The column is {column}");

}

Output:The column is a

The column is b

The column is c

The column is d

The column is e

The column is f

The column is g

The column is h

The column is i

The column is j

for (int row = 1; row < 11; row++)

{

for (char column = 'a'; column < 'k'; column++)

{

Console.WriteLine($"The cell is ({row}, {column})");

}

}

Output: The cell is (1, a)

The cell is (1, b)

The cell is (1, c)

The cell is (1, d)

The cell is (1, e)

The cell is (1, f)

The cell is (1, g)

The cell is (1, h)

The cell is (1, i)

The cell is (1, j)

The cell is (2, a)

The cell is (2, b)

The cell is (2, c)

The cell is (2, d)

The cell is (2, e)

The cell is (2, f)

The cell is (2, g)

The cell is (2, h)

The cell is (2, i)

The cell is (2, j)

The cell is (3, a)

The cell is (3, b)

The cell is (3, c)

The cell is (3, d)

The cell is (3, e)

The cell is (3, f)

The cell is (3, g)

The cell is (3, h)

The cell is (3, i)

The cell is (3, j)

The cell is (4, a)

The cell is (4, b)

The cell is (4, c)

The cell is (4, d)

The cell is (4, e)

The cell is (4, f)

The cell is (4, g)

The cell is (4, h)

The cell is (4, i)

The cell is (4, j)

The cell is (5, a)

The cell is (5, b)

The cell is (5, c)

The cell is (5, d)

The cell is (5, e)

The cell is (5, f)

The cell is (5, g)

The cell is (5, h)

The cell is (5, i)

The cell is (5, j)

The cell is (6, a)

The cell is (6, b)

The cell is (6, c)

The cell is (6, d)

The cell is (6, e)

The cell is (6, f)

The cell is (6, g)

The cell is (6, h)

The cell is (6, i)

The cell is (6, j)

The cell is (7, a)

The cell is (7, b)

The cell is (7, c)

The cell is (7, d)

The cell is (7, e)

The cell is (7, f)

The cell is (7, g)

The cell is (7, h)

The cell is (7, i)

The cell is (7, j)

The cell is (8, a)

The cell is (8, b)

The cell is (8, c)

The cell is (8, d)

The cell is (8, e)

The cell is (8, f)

The cell is (8, g)

The cell is (8, h)

The cell is (8, i)

The cell is (8, j)

The cell is (9, a)

The cell is (9, b)

The cell is (9, c)

The cell is (9, d)

The cell is (9, e)

The cell is (9, f)

The cell is (9, g)

The cell is (9, h)

The cell is (9, i)

The cell is (9, j)

The cell is (10, a)

The cell is (10, b)

The cell is (10, c)

The cell is (10, d)

The cell is (10, e)

The cell is (10, f)

The cell is (10, g)

The cell is (10, h)

The cell is (10, i)

The cell is (10, j)

int sum = 0;

for (int number = 1; number < 21; number++)

{

if (number % 3 == 0)

{

sum = sum + number;

}

}

Console.WriteLine($"The sum is {sum}");

Output:The sum is 63