ArithmeticOperations.c

#include &lt;jni.h&gt;

#include &quot;ArithmeticOperations.h&quot;

JNIEXPORT jint JNICALL Java\_ArithmeticOperations\_add(JNIEnv \*env, jobject obj, jint

a, jint b) {

return a + b;

}

JNIEXPORT jint JNICALL Java\_ArithmeticOperations\_subtract(JNIEnv \*env, jobject obj,

jint a, jint b) {

return a - b;

}

JNIEXPORT jint JNICALL Java\_ArithmeticOperations\_multiply(JNIEnv \*env, jobject obj,

jint a, jint b) {

return a \* b;

}

JNIEXPORT jint JNICALL Java\_ArithmeticOperations\_divide(JNIEnv \*env, jobject obj,

jint a, jint b) {

if (b == 0) {

return 0; // Handle division by zero

}

return a / b;

}

ArithmeticOperations.java

public class ArithmeticOperations

{

public native int add(int a, int b);

public native int subtract(int a, int b);

public native int multiply(int a, int b);

public native int divide(int a, int b);

static

{

System.loadLibrary(&quot;ArithmeticOperations&quot;);

}

public static void main(String[] args)

{

ArithmeticOperations ops = new ArithmeticOperations();

int a = 10, b = 5;

System.out.println(&quot;Addition: &quot; + ops.add(a, b));

System.out.println(&quot;Subtraction: &quot; + ops.subtract(a, b));

System.out.println(&quot;Multiplication: &quot; + ops.multiply(a, b));

System.out.println(&quot;Division: &quot; + ops.divide(a, b));

}

}