import static org.junit.jupiter.api.Assertions.\*;  
import org.junit.jupiter.api.\*;  
  
public class MainTest {  
 private Main main;  
  
 @BeforeAll  
 static void initAll(){  
 System.*out*.println("Staring Operations");  
 }  
  
 @BeforeEach  
 void setUp(){  
 main = new Main();  
 System.*out*.println("setup completed");  
 }  
  
 @AfterEach  
 void tearDown(){  
 System.*out*.println("Tests Completed");  
 }  
  
 @AfterAll  
 static void cleanAll(){  
 System.*out*.println("All operations are completed");  
 }  
  
 @Test  
 void testAddition(){  
 int a = 4;  
 int b = 5;  
  
 int result = main.add(a,b);  
 *assertEquals*(9,result);  
 }  
  
 @Test  
 void testSubtraction(){  
 int a = 5;  
 int b = 4;  
  
 int result = main.subtract(a,b);  
 *assertEquals*(1,result);  
 }  
  
 @Test  
 void testMultiply(){  
 int a = 5;  
 int b = 4;  
  
 int result = main.multiply(a,b);  
 *assertEquals*(20,result);  
 }  
  
 @Test  
 void testDivision(){  
 int a = 20;  
 int b = 4;  
  
 int result = main.divide(a,b);  
 *assertEquals*(5,result);  
 }  
  
 @Test  
 void testDivisonbyZero(){  
 int a = 6;  
 int b = 0;  
  
 Exception exception = *assertThrows*(IllegalArgumentException.class, () -> main.divide(a,b));  
 *assertEquals*("cannot get divided by Zero", exception.getMessage());  
 }  
  
}