|  |
| --- |
| #include <CUnit/Basic.h> |
|  |

|  |
| --- |
| #include <CUnit/CUnit.h> |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| #include <function.h> |
|  |

|  |
| --- |
| #define PROJECT\_NAME "function" |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| /\* Prototypes for all the test functions \*/ |
|  |

|  |
| --- |
| int test\_add(void); |
|  |

|  |
| --- |
| int test\_subtract(void); |
|  |

|  |
| --- |
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|  |

|  |
| --- |
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|  |
| --- |
| /\* Start of the application test \*/ |
|  |

|  |
| --- |
| int main() { |
|  |

|  |
| --- |
| /\* Note: Do not edit START\*/ |
|  |

|  |
| --- |
| /\*Initialize and setup the Test Framework \*/ |
|  |

|  |
| --- |
| if (CUE\_SUCCESS != CU\_initialize\_registry()) |
|  |

|  |
| --- |
| return CU\_get\_error(); |
|  |

|  |
| --- |
| CU\_pSuite suite = CU\_add\_suite(PROJECT\_NAME, 0, 0); |
|  |

|  |
| --- |
| /\* Note: Do not edit END \*/ |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| /\* Add your test functions in this format for testing\*/ |
|  |

|  |
| --- |
| CU\_add\_test(suite, "add", test\_add); |
|  |

|  |
| --- |
| CU\_add\_test(suite, "subtract", test\_subtract); |
|  |

|  |
| --- |
|  |
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| --- |
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|  |
| --- |
| /\* Note: Do not edit START\*/ |
|  |

|  |
| --- |
| /\* Setup Test Framework to output the result to Screen \*/ |
|  |

|  |
| --- |
| CU\_basic\_set\_mode(CU\_BRM\_VERBOSE); |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| /\* run the unit test framework\*/ |
|  |

|  |
| --- |
| CU\_basic\_run\_tests(); |
|  |

|  |
| --- |
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|  |

|  |
| --- |
| /\* Cleaning the Resources used by Unit test framework \*/ |
|  |

|  |
| --- |
| CU\_cleanup\_registry(); |
|  |

|  |
| --- |
| /\* Note: Do not edit END \*/ |
|  |

|  |
| --- |
| return 0; |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
| /\* Write all the test functions \*/ |
|  |

|  |
| --- |
| int test\_add(void) { |
|  |

|  |
| --- |
| CU\_ASSERT(30 == add(10,20)); |
|  |

|  |
| --- |
| CU\_ASSERT(40 == add(8,32)); |
|  |

|  |
| --- |
| CU\_ASSERT(6 == add(3,3)); |
|  |

|  |
| --- |
| CU\_ASSERT(5040 == add(2520,2520)); |
|  |

|  |
| --- |
| CU\_ASSERT(720 == add(360,360)); |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| /\* Dummy fail\*/ |
|  |

|  |
| --- |
| CU\_ASSERT(100 == add(95,5)); |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| int test\_subtract(void) { |
|  |

|  |
| --- |
| CU\_ASSERT(100 == subtract(200,100)); |
|  |

|  |
| --- |
| CU\_ASSERT(20 == subtract(60,40)); |
|  |

|  |
| --- |
| CU\_ASSERT(44 == subtract(100,56)); |
|  |

|  |
| --- |
| CU\_ASSERT(45 == subtract(50,5)); |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| /\* Dummy fail\*/ |
|  |

|  |
| --- |
| CU\_ASSERT(0 == subtract(6,6)); |
|  |

}