

```

1  /**
2   * @file
3   * Example session of Gobelijn trace assignment.
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5   */
6
7  #include <iostream>
8  #include <vector>
9  #include <exception>
10 #include "tracer/tracer.h"
11 #include "objtracer/demobj.h"
12 #include "demos.h"
13
14 using namespace ODemo;
15 using std::cout;
16 using std::endl;
17 using std::vector;
18 using std::exception;
19 using std::shared_ptr;
20 using std::function;
21 using std::string;
22
23 namespace {
24     void func(const Vehicle* vehicle) {
25         COMP_MISC_FUNCTION_TRACER;
26         vehicle->get_info();
27     }
28 }
29
30 int practsession()
31 {
32     COMP_MISC_FUNCTION_TRACER;
33     {
34         COMP_MISC_BLOCK_TRACER("Block 1");
35
36         COMP_MISC_LOG_TRACER(" statement: Bicycle m1(\"Honda\", \"red\");");
37         Bicycle m1("Honda", "red");
38
39         COMP_MISC_LOG_TRACER(" statement: Bicycle* m2 = new Bicycle(m1);");
40         Bicycle* m2 = new Bicycle(m1);
41
42         COMP_MISC_LOG_TRACER(" statement: func(m2);");
43         func(m2);
44
45         COMP_MISC_LOG_TRACER(" statement: delete m2;");
46         delete m2;
47     }
48
49     {
50         COMP_MISC_BLOCK_TRACER("Block 2");
51
52         COMP_MISC_LOG_TRACER(" statement: Motorcycle yamaha(shared_ptr<Engine>(new Engine(80)));");
53         Motorcycle yamaha(shared_ptr<Engine>(new Engine(80)));
54
55         COMP_MISC_LOG_TRACER(" statement: shared_ptr<Motorcycle> suzuki(new Motorcycle(yamaha));");
56         shared_ptr<Motorcycle> suzuki(new Motorcycle(yamaha));
57
58         COMP_MISC_LOG_TRACER(" statement: suzuki->startEngine();");
59         suzuki->startEngine();
60     }
61
62     {
63         COMP_MISC_BLOCK_TRACER("Block 3");
64
65         COMP_MISC_LOG_TRACER(" statement: Motorcycle m1;");
66         Motorcycle m1;
67
68         COMP_MISC_LOG_TRACER(" statement: Motorcycle m2 = m1;");
69         Motorcycle m2 = m1;
70
71         COMP_MISC_LOG_TRACER(" statement: m1 = std::move(m2);");
72         m1 = std::move(m2);
73     }
74
75     COMP_MISC_LOG_TRACER(" statement: return 0;");
76     return 0;
77 }

```