Namespaces

- When a header file, such as iostream, is included in a program, the global identifiers in the
 header also become global identifiers in the program. If a program's global identifiers are the
 same as ones in the header the compiler generates a syntax error ("identifier redefined").
- The same problem can occur if a program uses 3rd party libraries. To overcome this problem 3rd party vendors began their global identifiers with an underscore (_). To avoid linking errors you shouldn't begin your identifiers with an underscore.
- C++ tries to solve the issue of overlapping global identifier names with the namespace mechanism, e.g.

```
namespace globalType
{
    const int N = 10;
    const double RATE = 7.5;
    void printResult();
}
```

- The syntax for accessing a namespace member is to use the scope resolution operator (::), so to access the RATE member in the above namespace you might use globalType::RATE.
- To simplify accessing of namespace members use the statement using, e.g. using namespace globalType;
- This will allow you to access the RATE member directly without having to use globalType::RATE. You will not have to put the name and scope (::) before the member.