



Session 9

Inheritance

Content: (We covered the concepts of Ex. 1,2, and 3 in the last session. We continue from Ex 4.)

Example 1. Function as a Friend.

Example 2. Class as a Friend.

Example 3. Operator overloading as Friend function

Example 4. Simple Inheritance (Single level).

Example 5. Multiple Inheritance.

Example 6. virtual function / pure virtual / abstract class.

Example 7. Diamond Problem.

Lab Task: Investigate all the codes one by one.

Use the Makefile to compile all the codes and then run using `./run_exampleX`, where X is the example number.

Or, Compile and run individually. Individual Compilation Command:

```
$ g++ -o run test_example1.cc example1.cc
```

Then run Command: `./run`

Note: This sessions material (Slide's content and codes) is prepared by Wali Mohammad Abdullah and slightly modified by Reza.