Lab 1.4.1 Parentheses

Objectives

Familiarize the student with:

- the order of operations;
- the use of parentheses to change the order of operations.

Scenario

Add some parentheses (none, one or two pairs) in the code below to get the expected results. Try to do this before you run the program.

```cpp
#include <iostream>
#include <iomanip>
#include <string>

int main()
{
  float v=2;
  float result = v + 1 * 2;
  std::cout << "result:  " << result <<  "  expected result :  6" << std::endl;
  result = v + 1 * v + 2 * 2;
  std::cout << "result: " << result <<  "  expected result : 24" << std::endl;
  result = v - 1 * 2 + 2 * 2;
  std::cout << "result:  " << result <<  "  expected result :  6" << std::endl;
  result = v + v * v + v * 2;
  std::cout << "result: " << result <<  "  expected result : 32" << std::endl;
  result = (int)v % 2 * v + 2 * 2;
  std::cout << "result:  " << result <<  "  expected result :  0" << std::endl;
}
```

Example input

```
Add parentheses
```

Example output

```
result:  6  expected result :  6
result: 24  expected result : 24
result:  6  expected result :  6
result: 32  expected result : 32
result:  0  expected result :  0
```