Object Oriented Programming (IGS2130)

Lab 4

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Exercise #1

Hint
01. p54, 02 p12~13

- The following program is a sorting program for 3 real numbers. Create the 5 user defined functions of the program so it can produce like the below output.
  - Use pointers to functions
  - Use functions with reference parameters

```
void sort3(double&, double&, double&, bool(*)(double&, double&));
void print3(const double&, const double&, const double&);
void swap2(double&, double&);
bool ascending(double&, double&);
bool descending(double&, double&);

int main() {

    double na1 = 10.3, na2 = -2.1, na3 = 8.0;
    double nd1 = 10.3, nd2 = -2.1, nd3 = 8.0;

    cout << "Befere sort: "; print3(na1, na2, na3);

    sort3(na1, na2, na3, ascending);
    sort3(nd1, nd2, nd3, descending);

    cout << "After sort(ascending): "; print3(na1, na2, na3);
    cout << "After sort(descending): "; print3(nd1, nd2, nd3);

    return 0;
}
```

```
Befere sort: 10.3 -2.1 8
After sort(ascending): 10.3 8 -2.1
After sort(descending): -2.1 8 10.3
```

Exercise #2

Hint
02. p19~25

- Complete the "OOP Project: Step 01" in the lecture note.
  - Use the given codes in the lecture note.
  - Fix any bugs in the code if exist
  - Make the program code works from your PC

Exercise #3

- Add one more feature to Exercise #2
  - Delete an account
    - Delete account specified by account ID
  - Delete all accounts

Add more features when you submit the homework