

# Printing Out Class Member Data

## Exercises

- Add a print() member function to the class below which displays the value of the data members on the screen
- Create a program which calls the print() method

```
class refrigerator {  
    // Data members  
    double temperature;  
    bool door_open;  
    bool power_on;  
};
```

- Modify the `print()` member function so that it takes a `std::ostream` as its argument and sends the data there
- Create a program which implements the `print()` method and calls it, passing `cout` as the output stream argument
- Does it matter whether the output stream is passed by reference or by value?
- Modify your program so that it opens a file. Call the `print()` member function to save the data to the file

- Explain why the code below does not work
- What changes would you need to make for the code to work?

```
cout << "Current state of fridge: " << fridge << endl;
```

- The code below is converted into function calls. What would the code look like after being converted?

```
int i{1}, j{2};  
cout << i << j;
```

- Explain why the overloaded << operator returns a reference to the output stream

- Modify your program so that the code below now compiles and runs correctly

```
cout << "Refrigerator status: " << fridge << endl;
```