

3. Prog2 is better designed than prog1 because it uses private variables rather than public which is an example of loose coupling. Due to this a setter is required instead of changing the variable directly. This increases understanding and adaptability.
4. The MyReader class reads the resource but has unnecessary code which is bad practice. It checks the FTP and the ping which should be in a different class. This is how it should be rewritten:

```
class MyReader {

    // read the resource from disk
    public String readFromDisk(String fileName) {
        return "data of " + fileName;
    }

    // read the resource from web
    public String readFromWeb(String url) {
        return "data of " + url;
    }

    // read the resource from network
    public String readFromNetwork(String networkAddress) {
        return "data of " + networkAddress;
    }

}

class checker() {

    public boolean validateLocation(String pathIP) {
        return ping(pathIP) && checkFTP(pathIP);
    }

    private boolean checkFTP(String pathIP) {
        return true;
    }

    private boolean ping(String pathIP) {
        return true;
    }

}
```