

```
1 package chapter20.memo;
2
3 import java.util.List;
4 import java.util.Scanner;
5
6 public class FrontController {
7     private static FrontController instance = new FrontController();
8     private FrontController() {
9     }
10    public static FrontController getInstance() {
11        return instance;
12    }
13    private MemoController controller = MemoController.getInstance();
14    private MemoView view = MemoView.getInstance();
15    private Scanner scanner = new Scanner(System.in);
16    public void process() throws Exception {
17        view.welcome();
18        while (true) {
19            int menu = view.mainMenu(scanner);
20            switch (menu) {
21                case 1:
22                    List<MemoVO> memos = controller.selectMemos();
23                    view.selectMemos(memos);
24                    break;
25                case 2:
26                    MemoVO iMemo = view.insertMemo(scanner);
27                    if (iMemo != null) {
28                        int insertMemo = controller.insertMemo(iMemo);
29                        view.insertResult(insertMemo);
30                    }
31                    break;
32                case 3:
33                    MemoVO uMemo = view.updateMemo(scanner);
34                    if (uMemo != null) {
35                        int updateMemo = controller.updateMemo(uMemo);
36                        view.updateResult(updateMemo);
37                    }
38                    break;
39                case 4:
40                    int deleteNo = view.deleteMemo(scanner);
41                    int deleteMemo = controller.deleteMemo(deleteNo);
42                    view.deleteResult(deleteMemo);
43                    break;
44                case 0:
45                    System.out.println("프로그램을 종료합니다.");
46                    System.exit(0);
47                default:
48                    break;
49            }
50        }
51    }
```

FrontController.java

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52}  
53
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