Static Analysis Report

the analyze for your code and some details.

Your Code is about:75.7points

Problems

```
(line 1,col 9)-(line 1,col 45):pmd-All methods are
static. Consider using a utility class instead.
Alternatively, you could add a private constructor or
make the class abstract to silence this warning.
All methods are static Consider using a utility class
instead Alternatively, you could add a private
constructor or make the class abstract to silence this
warnina
(line 23, col 9)-(line 27, col 9):t-expandSingleIf
Expand Single If
Expand conditional expression in if statement to
multiple if statements.
(line 25, col 16)-(line 27, col 9):t-expandSingleIf
Expand Single If
Expand conditional expression in if statement to
multiple if statements.
(line 25, col 16)-(line 27, col 9):t-expandSingleIf
Expand Single If
Expand conditional expression in if statement to
multiple if statements.
(line 29, col 9)-(line 41, col 9):t-transferSwitchToIf
Transfer Switch To If
Transfer switch statement to multiple if statements.
```

Your Origin Code

```
class IfElseDemo {
   public static void main(String[] args) {
```

```
int testscore = 76;
        char grade;
        if (testscore >= 90) {
            grade = 'A';
        } else if (testscore >= 80) {
            grade = 'B';
        } else if (testscore >= 70) {
            grade = 'C';
        } else if (testscore >= 60) {
            grade = 'D';
        } else {
            grade = 'F';
        }
        System.out.println("Grade = " + grade);
        boolean isFailed = grade == 'F';
        if (grade == 'A' || grade == 'B') {
            System.out.println("Good!");
        } else if (isfailed && (isFailed || testscore < 50) &&
testscore < 50) {
            System.out.println("Fatal failed.");
        }
        switch (grade) {
            case 'A':
                break;
            case 'B':
                System.out.println("hi");
                break;
            case 'C':
                System.out.println("hello");
                break;
            default:
                System.out.println("how are you");
                break;
        }
        if (isFailed) {
            System.out.println("Your parents will be invited to the
```

```
school.");
}
}
```

Beauty_Code

```
class IfElseDemo {
    public static void main(String[] args) {
        int testscore = 76;
        char grade;
        if (testscore >= 90) {
            grade = 'A';
        } else if (testscore >= 80) {
            grade = 'B';
        } else if (testscore >= 70) {
            grade = 'C';
        } else if (testscore >= 60) {
            grade = 'D';
        } else {
            grade = 'F';
        System.out.println("Grade = " + grade);
        boolean isFailed = grade == 'F';
        if (grade == 'A') {
            System.out.println("Good!");
        } else if (grade == 'B') {
            System.out.println("Good!");
        } else if (isfailed) {
            if ((isFailed || testscore < 50)) {</pre>
                if (testscore < 50) {</pre>
                    System.out.println("Fatal failed.");
                }
            }
        }
        if (grade == 'A') {
        } else if (grade == 'B') {
            System.out.println("hi");
        } else if (grade == 'C') {
            System.out.println("hello");
        } else {
```

```
System.out.println("how are you");
}
if (isFailed) {
    System.out.println("Your parents will be invited to the school.");
    }
}
```

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