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 warning

(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)) {  
 if (testscore < 50) {  
 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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