

1. Write a Java program using the `switch` statement that will prompt the user to enter a grade, and will display an appropriate message from the table below, depending on grade entered.

Grade	Message
A or a	Excellent student
B or b	Good student
C or c, D or d	Fair student
E or e, F or f	Poor Student
Any other value	Invalid grade

2. Comment out the `break` statements in the previous program. Compile and run the program. What happens and why?
3. Write a Java program using the `switch` statement, which will read a single character from the user, and will determine and output if the character is a vowel or not. Sample output when run might look as follows:

```
Enter a character : e      OR      Enter a character : n
e is a vowel              n is NOT a vowel
```

4. Write a Java program using the `switch` statement that will accept a month number (1 to 12) and will display the season on screen. (Take May, June and July as summer). Sample output:

```
Enter a month number [1-12]: 4
It is spring.
```

5. Write a Java program using the `switch` statement that will examine the value of a variable called `wire`, and will print one of the following messages depending on the character assigned to `wire`.

Message	Condition
EARTH – GREEN	if either e or E is assigned to wire
NEUTRAL – BLUE	if either n or N is assigned to wire
LIVE – BROWN	if either l or L is assigned to wire
INVALID Entry – Enter E, N or L	if any other value is entered