ASSIGNMENT -3

SUBMITTED BY

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WHAT IS THE DIFFERNCE BETWEEN SWITCH AND ELSE IF IN JAVA ?

1. In if-else, the values are based on conditions. In the switch case, the values are based on user preference.

2. In case, the situation gets false in the if statement, it will automatically execute the else statement.

Feature	Switch Statement	Else if Ladder

Syntax	java switch (expression)
	{
	  case value1: statement1; break; case value2: statement2; break; default: statementN;
	}
		java if (condition1)'
		{
		 statement1;
		} else if (condition2) {
		statement2;
		}
		Else
		{
		statementN;
		}

Expression Type	Can only evaluate an expression with discrete values such as integers, characters, or enumerated types.	Can evaluate any boolean expression or condition.
Readability	Suitable when the number of cases is large or the expressions are simple and well-defined.	Suitable when the number of conditions is relatively small or the expressions are complex.
Performance	Switch statements can have better performance when compared to long else if ladders because they are implemented using lookup tables or hash maps internally.	Performance may degrade if there are multiple conditions

SWITCH VS ELSE IF:

Switch is more efficient than else if in java because of its 1.Readability

2. Constant Expressions.switch is more efficient due to the creation of jump table for switch during compilation.Switch is easy to edit