030 -
IF-ELSE VS SWITCH

DEFINITION

IF-ELSE STATEMENTS

Depending on the condition in the 'if' statement, 'if' and 'else' blocks are executed.

SWITCH-CASE STATEMENTS

The user will decide which statement is to be executed.

EXPRESSIONS

IF-ELSE STATEMENTS

It contains either logical or equality expression.

SWITCH-CASE STATEMENTS

It contains a single expression which can be either a character or integer variable.

EVALUATION

IF-ELSE STATEMENTS

It evaluates all types of data, such as integer, floating-point, character or Boolean.

SWITCH-CASE STATEMENTS

It evaluates either an integer, or character.

SEQUENCE OF EXECUTION

IF-ELSE STATEMENTS

First, the condition is checked. If the condition is true then 'if' block is executed otherwise 'else' block.

SWITCH-CASE STATEMENTS

It executes one case after another till the break keyword is not found, or the default statement is executed.

DEFAULT EXECUTION

IF-ELSE STATEMENTS

If the condition is not true, then by default, else block will be executed.

SWITCH-CASE STATEMENTS

If the value does not match with any case, then by default, default statement is executed.

EDITING

IF-ELSE STATEMENTS

Editing is not easy in the 'if-else' statement.

SWITCH-CASE STATEMENTS

Cases in a switch statement are easy to maintain and modify. The removal or editing of any case will not interrupt the execution of other cases.

SPEED

IF-ELSE STATEMENTS

If there are multiple choices implemented through 'if-else', then the speed of the execution will be slow.

SWITCH-CASE STATEMENTS

If we have multiple choices then the switch statement is the best option as the speed of the execution will be much higher than 'if-else'.