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Day 23:- Assignment 7

1. what are the difference between the elseif and switch control construct.

	Else If	Switch
Definition	Depending on the condition in the 'if' statement, 'if' and 'else' blocks are executed.	
Expression	It contains either logical or equality expression.	It contains a single expression which can be either a character or integer variable.
Evaluation	It evaluates all types of data, such as integer, floating-point, character or Boolean.	
Sequence of execution	First, the condition is checked. If the condition is true then 'if' block is executed otherwise 'else' block.	It executes one case after another till the break keyword is not found, or the default statement is executed.
Default execution	If the condition is not true, then by default, else block will be executed.	If the value does not match with any case, then by default, default statement is executed.
Editing	Editing is not easy in the 'if-else' statement.	Cases in a switch statement are easy to maintain and modify. Therefore, we can say that the removal or editing of any case will not interrupt the execution of other cases.
Speed	If there are multiple choices implemented through 'if-else', then the speed of the execution will be slow.	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'.

2. Nested simple if:

Nested if refers to an if statement within an if statement. When we write an inner if condition within an outer if condition, then it is referred to as a nested if statement in java.

In the nested-if statement, the block of code is placed inside another if block. And the inner block of code will execute only when the outer condition holds true.

Example program:-Scenario: write a java program Using nested if conditions, we have printed a statement. Here we have two variables are declared and then the according to the conditions the statement is executed

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3. Nested if else:

It means an if-else statement inside another if statement. Or in simple words first, there is an outer if statement, and inside it another if – else statement is present and such type of statement is known as nested if statement. We can use one if or else if statement inside another if or else if statements.

Example program 1:-Check a person is eligible for blood donation.

Let's take an example of the blood donation by considering the two main conditions that are age and weight.as shown in the below program.

Example program 2:- find the tallest among 3 students: First, we'll use an if statement to determine whether the number is even or odd. Then, if the number were even, we would need to put another if and else statement. In the if block we again check whether the number is divisible by 6 or not. Likewise, in the else block, we would need to determine if the number is divisible by 3 or not.

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| demojava | demo1java | demo2java | demo3java | demo5java | demo6java | demo6
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