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INFORMATION TECHNOLOGY FOR CLASS 12

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Decision Making and Branching

- Decision making is used to take a particular decision regarding selection of a particular condition . For decision making java uses if and switch statements.

If statements:

- The if statement is a powerful and simplest decision making statement and is useful to control the flow of execution of program statement.
- Java provides different if statements such as simple if statements, if else statements, If and else if ladder.

1. Simple if statement (I.e. if statement):

- Java s if statements” where as, if is a keyword.
- In ‘if ’ statement if the condition is true then, it executes statement or statements which are present under if statement. Otherwise (if the condition is false) it goes out of loop or control transfer out of loop.
- Shows flow control of if statement.

2. If else statements:

- To overcome from the drawback of if statements java supports if else statements.
- Shows flow diagram of if else statement.
- In ‘if else’ statements if the condition is true then control transfer to the else par and else party executed statements 2.

3. Nested if statement

- Nested if statements means” one of statement present in another if statements”.
- In’nested if statements, if condition’1 is true then control transfer to the inner if statements here, it again checks for condition 2 whether it is true or false. If condition 2 is true is true then control transfer to the inner of statement.
- Otherwise (if condition 2 is false control transfer to out of loop of inner if statements. Otherwise (if condition 1 is false) control transferred out of loop.

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