## **Control Statements**

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Generally, the statements in a program get executed in the order in which they are written. This is referred as **Sequential** 

**Execution.** If the programmer wants to execute some statements even before other statements by surpassing the order, he must transfer the control of the program temporarily. This can be achieved with control

If — else — else if structures

structures like if, for and switch etc.,

structure because it selects or ignores a single action. The if ..else structure is said to be double selection structure because it selects either of two different actions. Switch Structure

If is for single selection and if.. else is for

double selection. When there is a situation

where multiple conditions are to be evaluated

The 'if' structure is called as a single selection

then it is always better to use switch structure. The switch structure contains a set of case labels, and an optional default case. Each case label is terminated by a statement break. switch(condition/expression)

case constant:

statements; break;

statements; break;

statements; break;

case constant:

default:

<<<<...

While Structure: While & For structures are said to be repetitive control structures or looping structures as the programmer can repeat the

execution of the same statements as many

times as required. The process of executing a

Here case, break, default are the keywords.

block of statements terminates when the condition becomes false. Syntax: While(condition)

The do... while structure is a bit different from

while. In while, the condition is checked first

evaluated where as in do...While structure,

and then the statements in the loop are

the statements in the loop are executed first and then the condition is evaluated.

Syntax:

do... while Structure:

Set of statements'

do Set of statements; While(condition);

other words, for control structure may be used if the no. of iterations is definite

Statements

For Structure:

Syntax: for(initialization; condition; incrementation/decrementation)

The 'for' structure is also a looping structure

statements for a specified no. of times. In

that performs a statement / a block

structure was introduced. The syntax follows:

In JDK1.5, a new version of for control

for (identifier in Range)

Set of statements;