DECISION MAKING & LOOPING

Statement:
initialization;
while (Condition)
{

Loop body;

The Condition is tested at entry point of the while loop. So, while is called entry controlled loop.

do Statement:
intialization;
do

loop body;

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while (Gnalition);

The Condition is tested at exist point of the loop. So, do-while is called exist-controlled loop.

Therefore, it executes at-least once even if condition is false.

'for' Statement:

for (initialization; test condition; increment)
{
 loop body;
}

Looping process includes following steps:

(i) Initialization of a Counter

(ii) Specifying loop breaking Condition

(iii) Statements inside the loop

(iv) Increment / Decrement of the Counter.

break: When break Statement is encountered then the immediate loop exits and the program Continues with the Statement, present after the loop.

Continue: When Continue Statement is encountered them for while and do-while, the Control directly go to Check the loop broaking Condition and Continues the iteration process. But for FOR loop, the Control directly go to increment Section and it Continues with iteration process.

BREAK is used to jump out of the loop and CONTINUE is used to skip a part of the loop.