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| **Java Overview** |
| **Loops** |
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| What are loop statements? |
| A loop statement allows us to execute a statement or group of statements multiple times  Java programming language provides the following types of loop:   1. while 2. do...while 3. for 4. for each |
| What while loop does? |
| Repeats target statements while a given condition is true. It tests the condition before executing the loop body.  When the condition becomes false, program control passes to the line immediately following the loop. |
| What do…while loop does? |
| Repeats target statements while a given condition is true. It tests the condition at the end of executing the loop body.  When the condition becomes false, program control passes to the line immediately following the loop. |
| What for loop does? |
| Very first time it set iteration counter and execute target statements multiple times if Boolean expression is true.  Second time onwards it executes update counter statement and executes target statements multiple times if Boolean expression is true.   * A for loop is useful when you know how many times a task is to be repeated. |
| What Enhanced for loop does?  What for each loop does? |
| Traverse collection of elements including arrays.  Syntax  Following is the syntax of enhanced for loop: |
| What are Loop Control Statements? |
| Loop control statements change execution from its normal sequence.  Java supports the following control statements.   1. break 2. continue |
| What break statement does? |
| Skip remaining statements (of the loop/switch) and terminates (jumps out of) the loop (while,doWhile,for,forEach) or switch statement and transfers execution to the statement immediately following the loop or switch. |
| What continue statement does? |
| Causes the loop to skip the remainder of its body and immediately retest its condition prior to reiterating. |