```
fb-root"></div>
function(d, s, id) \
, fjs = d.getElementsByTagName(s)[0];
getElementById(id)) return;
.createElement(s); js.id = id;
= "//connect.facebook.net/en_US/sdk.js#xft
arentNode.insertBefore(js, fjs);
ent, 'script', 'facebook-jssdk'));</script>
class="skip-link screen-reader-text" href="
ader id="masthead" class="site-header" rol
   <div class="site-branding">
                 <div class="navBtn pull-left">
                               <?php if(is_home() && $xpanel['home() of the limits o
                                <a href="#" id="openMenu"><i class
                                 <?php } else { ?>
                                 <a href="#" id="openMenu2"><i c
                                   <?php } ?>
                      <div class="logo pull-left">
                     </div>
                                     <a href="<?php echo esc_url( ho
                                                   <img src="<?php echo $xpane</pre>
                                        </a>
                          <div class="search-box hidden-xs h</pre>
                                         <?php get_search_form(); ?>
                            <div class="submit-btn hidden-xs</pre>
                                          <a href="<?php echo get_page_
                              <div class="user-info pull-right</pre>
                                                        ( is_user_logged_in() ) {
                                               <?php
```

hp body_c cost

TODAY'S AGENDA

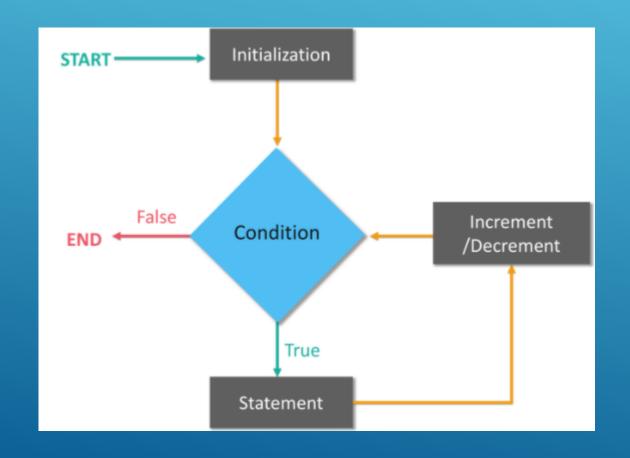


- For and While Loops
- Switch Case
- Static Array (One Dimensional and Two Dimensional)
- Dynamic Array

FOR LOOP



- > Programmers usually use loops to execute a set of statements. For loop is used when they need to iterate a part of the programs multiple times. It is particularly used in cases where the number of iterations is fixed!
- > Flow diagram:





```
for (statement 1; statement 2; statement 3) {
  // code block to be executed
}
```

Statement 1: condition before the code block is executed

Statement 2: specifies the condition for execution of the code

Statement 3: condition once the code has been executed

Example

public class MyClass { { public static void main(String[] args) { {for (int i = 0; i < 5; i++) { System.out.println(i); } }</pre>

} }

Output

1 2 3



NESTED FOR LOOP



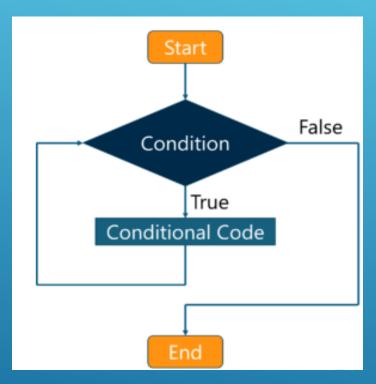


Example Output 11 public class Example{ public static void main(String[] args) { 12 13 for(int i=1;i<=3;i++){ 21 for(int j=1;j<=3;j++){ System.out.println(i+" "+j); 22 23 31 32 33

WHILE LOOP

> The Java while loop is used to iterate a part of the program again and again. If the number of iteration is not fixed, then you can use while loop.





Syntax while (condition) { // code block to be executed }

class Example { public static void main(String args[]){ int i=10; while(i>1){ System.out.println(i); i--; } } }

INFINITE WHILE LOOP

> The moment you pass 'true' in the while loop, the infinite while loop will be initiated.



Syntax

```
while (true){
    statement(s);
}
```

Example

```
class Example {
  public static void main(String args[]){
    int i=10;
    while(i>1)
    {
       System.out.println(i);
       i++;
    }
  }
}
```

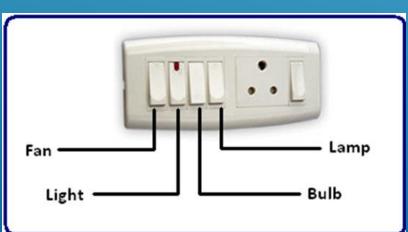
Switch Case

Java Switch Statement

- It is like a conditional statement which tests multiple values and gives one output. These multiple values that are tested are called cases.
- It is used when we have a number of options/choices and we may need to perform a different task for each choice.

Break Statement In Switch Case

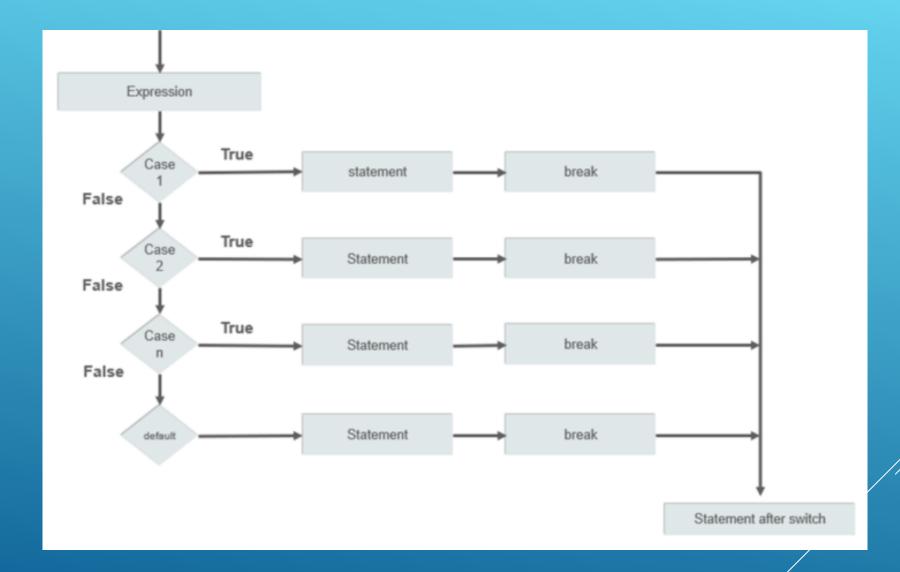
Break statement is used to control the flow of the execution, as soon as the expression is satisfied the execution moves out the switch case block.





Switch Case

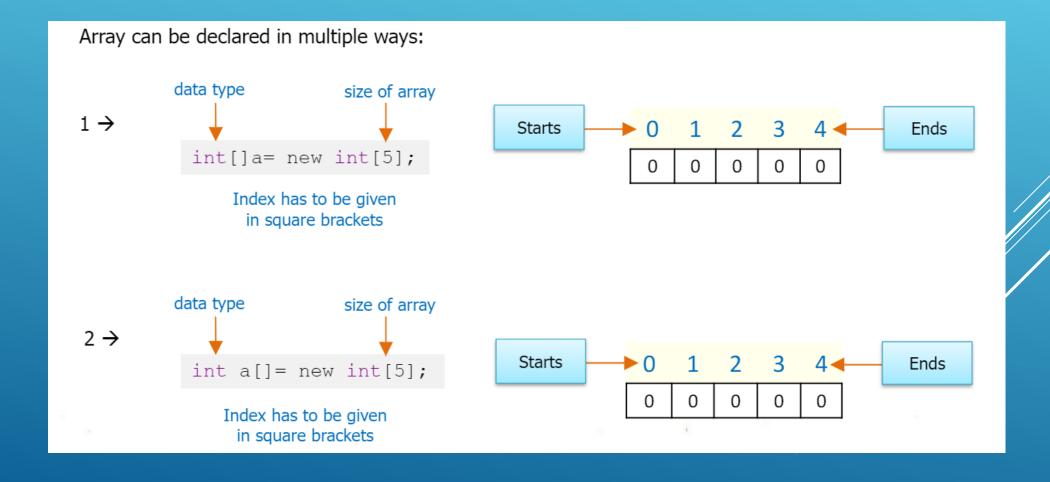




Arrays



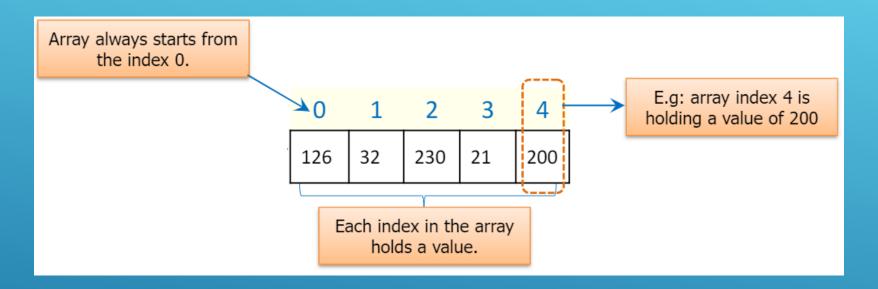
> Array is an object which contains fixed number of elements of a similar data type under same variable.



Arrays

➤ Array in Java is index based, the first element of the array is stored at 0th index and 2nd element is stored at 1st index and so on.





- Static Arrays (int, String, object)
- Two Dimensional Array (Table/Matrix)
- Dynamic Array (Array List)

Array List

The difference between a normal array and an ArrayList in Java, is that the size of an array cannot be modified (if you want to add or remove elements to/from an array, you have to create a new one). While elements can be added and removed from an ArrayList whenever you want.

- > Example:
- Population of UK
- Cricket scorecard career runs for batsman who keeps making runs.

HOMEWORK



Switch Case:

➤ 1. Write a program to print a specific month in the calendar for a given value.

For Loop:

- > 2. Write a program to print 10 even numbers and 10 odd numbers.
- > 3. Write a program to generate tables of 10.



HOMEWORK



While Loop:

- > 4. Write a program to print 10 even numbers and 10 odd numbers.
- > 5. Write a program to generate tables of 9.

Do While Loop:

- > 6. Write a program to print 10 even numbers and 10 odd numbers.
- > 7. Write a program to generate tables of .

Deadline: Wednesday Midnight Latest

