Dt : 26/7/2023
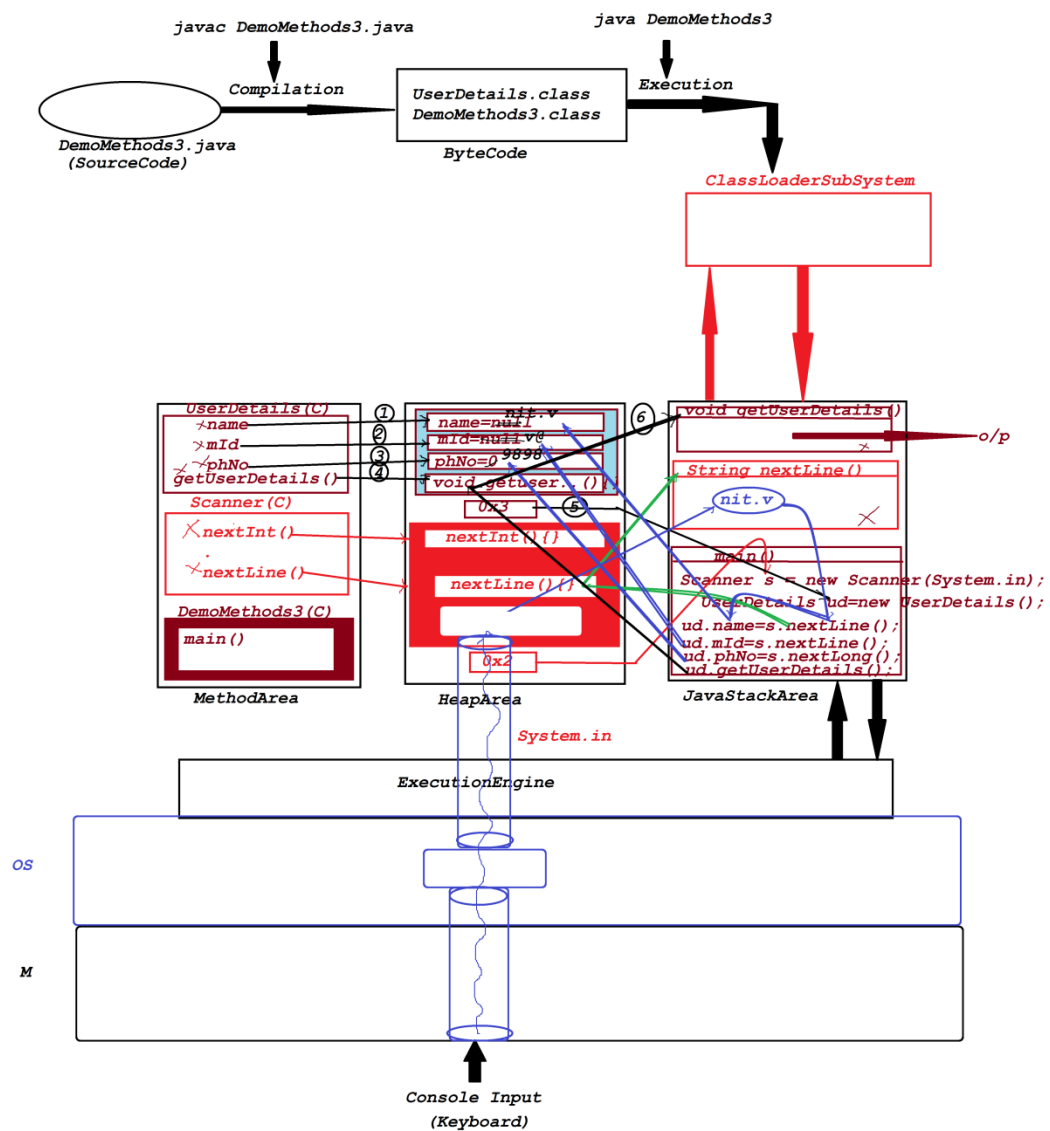
Execution flow of DemoMethods3.java:

ClassFiles:

UserDetails.class

DemoMethods3.class(MainClass)

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Operators in Java:

=>Operators are the special symbols used to perform operations.

=>The following are some important operators from Java:

1.Arithmetic Operators

2.Relational Operators

3.Logical Operators

4.Increment-Decrement Operators

1.Arithmetic Operators:

=>The operators which perform basic operations or fundamental operations are

known as Arithmetic Operators.

Operator	Meaning
+	Addition
-	Subtraction
*	Multiplication
/	Division
%	ModDivision

2.Relational Operators:

=>The operators which are used to compare two values are known as Relational

Operators or Conditional Operators

Operator   Meaning

> Greater Than

>= Greater Than or equal

< Less Than

<= Less Than or equal

== Is equal to

!= Not equal to

3.Logical Operators:

=>The operators which are used to compare two comparisions are known as Logical

Operations.

Operator   Meaning

&& Logical AND

|| Logical OR

! Logical NOT

Logical AND(&&):

A B A&&B

T T T

F T F

T F F

F F F

Logical OR(||):

A B A||B

T T T

F T T

T F T

F F F

Logical NOT(!):

A !A

T F

F T

4.Increment-Decrement Operators:

   =>Increment operator is used to increment the value by 1 and Decrement operator

is used to decrement the value by 1.

Operator   Meaning

++   Increment

--   Decrement

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Control Structures in Java:

 =>The structures which are used by the programmers to control execution-flow in

programs are known as Control Structures.

 =>These Control Structures are categorized into three types:

   1.Selection Statements

   2.Iterative Statements

   3.Branching Statements

 1.Selection Statements:

  =>The statements which are used to select one part of the program for execution

are known as Selection Statements or Conditional Statements.

 =>Types:

   (a)simple if

   (b)if-else

   (c)Nested if(Inner if)

(d)Ladder if-else

    (e)switch-case

2.Iterative Statements:

   =>The statements which are used to execute some lines of program repeatedly on

some condition are known as Iterative Statements or Repeatitive statements or

Looping Structures.

   =>Types:

    (a)while loop

    (b)do-while loop

    (c)for loop

3.Branching Statements:

   =>The statements which are used to transfer the execution-control from one

location to another location are known as Branching Statements or Transfer

Statements

   =>Types:

    (a)break

    (b)continue

    (c)return

    (d)exit

Note:

=>"goto" statement is not available in Java.

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