Dt : 12/8/2022

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Method in Java:

=>Methods are the actions which are executed to generate

results.

=>Methods in Java are categorized into two types:

1.Static methods

2.NonStatic methods(Instance methods)

1.Static methods:

=>The methods which are declared with 'static' keyword are

known as Static methods or Class methods.

=>These Static methods will get the memory within the class

while class\_loading.

=>These static methods are accessed with Class\_name.

Structure of static methods:

static return\_type method\_name(para\_list)

{

//method\_body

}

Coding rule:

=>Static methods can access static variables directly,but

cannot access Instance variables directly.

Types of static methods:

=>static methods are categorized into two types:

(i)pre-defined methods

(ii)User defined methods

(i)pre-defined methods:

=>The methods which are already defined and available from

JavaLib are known as Pre-defined methods or Built-in methods.

(ii)User defined methods:

=>The methods which are defined by the programmer are known

as User defined methods or Custom methods

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2.NonStatic methods(Instance methods):

=>The methods which are declared without static keyword are

known as NonStatic method or Instance methods or Object methods.

=>These Instance methods will get the memory within the object

while object creation process.

=>These Instance methods are accessed by the object name.

structure of Instance methods:

return\_type method\_name(para\_list)

{

//method\_body

}

Coding rule:

=>These instance methods can access both Instance variables

and static variables.

Types of Instance methods:

=>Instance methods are categorized into two types:

(i)pre-defined methods

(ii)User defined methods

(i)pre-defined methods:

=>The methods which are already defined and available from

JavaLib are known as Pre-defined methods or Built-in methods.

(ii)User defined methods:

=>The methods which are defined by the programmer are known

as User defined methods or Custom methods

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Ex-Program : DemoMethods1.java

class DemoMethods1

{

int a=10;

static int b=20;

void m1()

{

System.out.println("====Instance m1()=====");

System.out.println("The value a:"+a);

System.out.println("The value b:"+b);

}

static void m2()

{

System.out.println("====static m2()=====");

//System.out.println("The value a:"+a);

System.out.println("The value b:"+b);

}

public static void main(String[] args)

{

DemoMethods1 ob = new DemoMethods1();

ob.m1();

DemoMethods1.m2();

}

}

o/p:

====Instance m1()=====

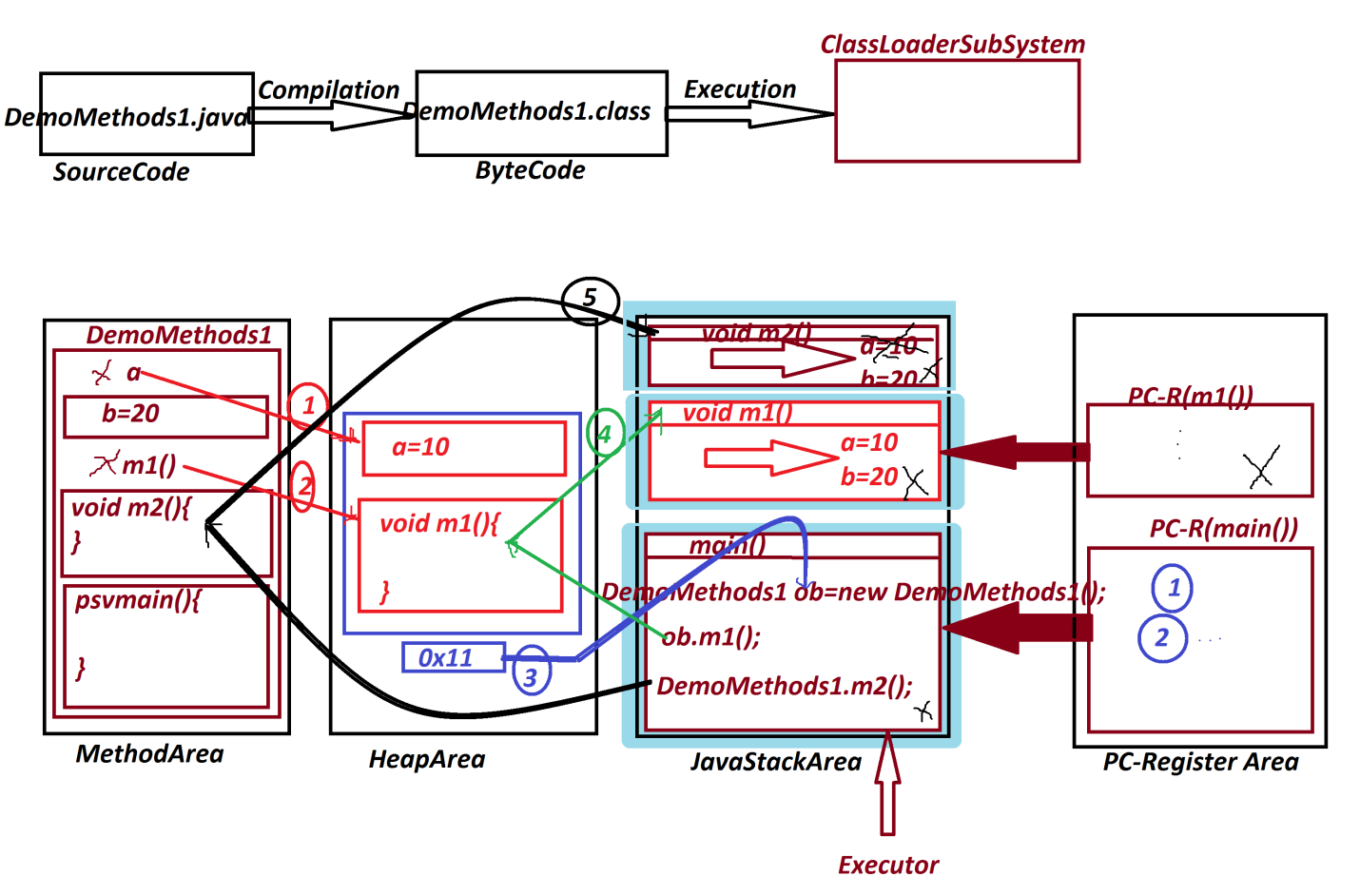
The value a:10

The value b:20

====static m2()=====

The value b:20

Execution flow of above program:



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