Variable homework

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**What is variable in Java?**

Variable is a special container that stores data, it is a label that describes a particular location in memory and associate it with a data type

**What is variable declaration and assignment in Java?**

A declaration of a variable means the program allocates memory for the variable.

Example : int myFirstInt; - here we declare out data type int giving it a label.

Assignment of a variable means the putting a value into allocated memory for variable

Example: int myFirstInt = 52; - Here we put value (52) into our allocated memory for variable (myFirstInt)

**Please explain Java naming convention with examples**

Java naming convention is a rule to follow for naming your identifiers such as package, class, method, variable etc.(it is not forced to follow. So, it is not rule but convention)

Java packages, classes, methods and fields names are given with following Java naming convention

1)package in java should be in lowercase letters ex( primitives )

2)class name should start with uppercase letter ex(MyFirstPrimitiveByte)

3)method() name should start with lowercase letter ex(public static void)

4)Variable name should start with lowercase letter and follow camelCase rule ex(hisPhoneModel)

5)We can use only characters from ‘a’ to ‘z’, ‘A’ to ‘Z’, numbers from ‘0’ to ‘9’, character ‘\_’, and character ‘$’ for naming the variables (my1stDollar$)

6) variable name cannot contain space character (NEVER “his Second Rule” )

7) variable name cannot start with a digit (1stClass)

8) Upper and lower case are different characters. (int / Int - different)

9)A variable name cannot be a reserved keyword by Java (public / main / int)

10)A variable name cannot be used twice in the same block of the program

(ex int myFirstClass and byte myFirstClass - not to be used twice)