**Datatypes:**

**i) Primitive data types**

**ii) Non-Primitive data types**

**i) Primitive data types**

byte vbyte=123; // 1 byte ( - 128 to 127)

short vshort=12345; // 2 bytes ( -32,768 to 32767 )

int vint=1234567891; // 4 bytes ( -2,147,483,648 to 2,147,483,647 )

long vlong=1234567891; // 8 bytes ( -9,223,372,036,854,775,808 to 9,223,372,036,854,775,807)

char vchar='a'; // 2 byes -- holds characters

float vfloat=1234567891.231235f; // 4 bytes -- holding 6 to 7 decimal digits

double vdouble=1234567891.123335555; // 8 bytes --- holding 15 decimals digits

boolean vboolean=true; // holds true or false

**ii) Non-Primitive data types**

Arrays, String, etc.

**Three Types of variables:**

1. Local Variable -- these variables are declared inside method of the class

2. Static Variable ( or class ) -- associated with class

3. Instance Variable --- each instance of the class has its own copy of instance variable

**final, finally, finalize:**

**final** keyword can be used along with **variable, methods and classes**.

**final variables** are nothing but **constants**, we cannot change the value of a final variable once it is initialized

**final method** cannot be **overridden** which means even though a sub class can call the final methods of parent class without any issues but it cannot be overridden.

**final** class cannot be **extended.**

**final, finally and finalize** are three different terms, **finally is used in exception handling** and **finalize is a method that is called by JVM during garbage collection**.