

4.

Differences Among class, Local and instance Variables:

Type	Scope	Memory	Lifetime
class(static)	Shared by all objects	class Area	As long as the class is loaded.
instance	Unique to each object	Heap	As long as the object exists.
Local	inside a method/block	stack	only while the method runs.

Example:

Class Example {

static int classVar = 100;

int instanceVar = 200;

void display () {

int localVar = 50;

System.out.println(classVar + " " + instanceVar + " " + localVar); }