- They are declared within the method, and have limited sope.

> UMERCHSE is used.

5. Differentiate between widening and narrowing casting in Java.
Widening Casting converts smaller variables to larger variables, for example, char to Phing while narrowing Casting converts larger middles to smaller variables, for example integer to char.

6 Fill in the missing values.

Type Vize in Default Pa

Boolson 1 bit false true, false

Char 2 uccoop 'loodo to 'lffff'

Byte 8 bits 0 -128 to 127

That 16 bits 0 -2" to +2" -1

Int 4 0 -2" to +2" -1

Long 8 OL -2" to +2" -1

Flood 4 00:05 3.4e-038 to 3.4e+038

Double 6 0:00 -1.8E+3D8 to +1.8E+3D

7. Define class as used in DOP.
It is a template used to create variables and method implementation

8. Importance of Classes in Java.

They create and manage new objects.

Can define types of operations that can be performed on an object.

It defines a nature of a future object.

Ansignment
1. Differences between primitive and reference data types.  Primitive data type  Reference data type  O Stores the actual value hence  O Stores the momory addresses.
Trimitive data type Reference data types.
1) I tores the actual value hence O Stores the mornory addresses.
Examples are integer, booloan, Examples are arrays, classes.
Mart, char, double, and intertaces
2. Tope of a smable.
The Prope tells the compiler about a segment within a program
The Prope tells the compiler about a segment within a program where the program is variable is used.
Types are; Local Scope > Programmers declare local variables in a local Scope or Method scope, within the method.
Local Vcope -> Trogrammers declare local variables in a
Global Rope -> Any variable declared outside a function or
a variable that can be accessed anywhere in the program.
3. Why initialisation of variables is required.  It is required because it can prevent unintended errors during the
It is required because It can prevent unintended errors during the
The mode is more of more efficient vince no temporary objects are
The code is made of more efficient vince no temporary objects are created for the initialization, hence faster coding.
4. Differentiate between Matic, instance and local variables.
O(1)
Static Variables.
Static Variables.  They are declared using a keyword and are used for shared data
Static Variables.  They are declared using a keyword and are used for shared data across all class instances.
> They are declared using a keyword and are used for shared data across all class instances.
hey are declared using a keyword and are used for shared data across all class instances.  Instance Variables.
> They are declared using a keyword and are used for shared data across all class instances.