CONSTANT, VARIABLES DATA TYPES

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Constant	L	•

Numeric Constant 49 Anteger Constant 4 Real

Character Constant 4 Character Constant -> String 11

Vaniable:

Variable name Consists of alphabets, digits, Underscore (-) and doller.

Conditions:

- Should not begin with digit. > Total = total (case sensitive) 4 Should not a keyword 4 White space is not allowed 4 can be any length

Data Types:

Data types specify the size and type of

Values that can be stored.

Primitive Non-numeric → gnteger

Non-numeric → character

Boolean

Non-poinitive Shterface Derived data types

away

Binary Conversion: Decimal to Binary

b Binary to Decimal

1B

Integer: byte

Short 2B int 4B

long 8B

Floating:

float 4B double 8B

Character:

Char -> 2B -> hold only a Single Character

-TS8

-32,768

-2,147,483,648

127

32,767

2,147,483,647

Boolean:

boolean > 1b

False

Declaration of variables:

Ly tells compiler what the variable name is.

4 Specifies what type of data the variable holds.
4 place of declaration decides the Slope of the variable.
4 declare the variable before it is used.

E.g. type⊥ Variable I, Variable 2; type 2 Variable 3;

Scope of Variables:

instantiated and associated with objects.

L> Class Variables: Global to a class & belong to the entire set of objects that class creates.

Ly Local variables: Declared and used inside the methods.

Type Costing: Gituations where there is a need to store a Value of one type into a variable of another type.

E.g. (data_type) var1 = (data_type) var2;

Assigning Smaller type -> large type

12 larger type -> Smaller type

may result in loss of information.