Unit III : Values & Data Types

- Each statement in programming is formed by using different word called 'Token'.
- Enaracters one the basic and fundemental wit of programming language.

character sets

Letters Operators Delimiters These are special > Upper case > A to Z These are signs or symbols > Lower cone > a to z special aperations in java characters used in Arithmetic: +,-,+,1,1, java program - logical: &&, 11, 1 | Braces! {,} Relotional: <, <=, >,>=> Punctuation All digits that ==/!=// 9 • ; ? are used in programming (0 to 9)

ASC II > American Standard Code for Information
Interchange

> It represents these characters as numbers while each character has its unique number:

Codes	Characters
48-57	0-9
65-90	A - Z
97-122	0-2
32	Blank

Unicode — Unicode is a wide prepresentation of characters in numeric form containing herade aimal digits from 0x0000 up to 0x FFFF (i.e 16 bits code)

Horizontal tab Vertical tab	Escape Sequences	Non-Graphic Character
Vertical tab	10	
- Pack clash		· Vertical lab
Docensor	11	Backslash
1' Single quote		Single quote
Double quote	11	
16 Bachspace	/ b	
Form feed		Form feed
Nall .		Null
Carriage return	· · · · · · · · · · · · · · · · · · ·	Carriage return
New line feed.	· \ n	

Escape sequences one basically some characters that are used to control the cursor while displaying the values on the screen

Tokens -> Set of valid characters used for writing a statement in java program.

Literals They have fixed values which eannot be changed at all.

used for naming a block of statement by which they are identified in brodrow

Identifiers Assignment Operators Punetuators storing a Signs used Symbols a special mi sulor or signs character a variable used to in java specify the operations to be performed in a program.

Separators

They are special character in Java used to separate the variables or characters

Keywords

Words that provide special meaning to the compiler

Primitive Data Types -> Bosie or fundemental data types used to declare a variable.

1) Numeric data types

Integer type

- → byte

- -> long'



- > float
- -> double

2) Non-numeric data types

-> character type -> Boolean type

Declaration

Declaration is the term to used to declare the type of a variable.

Egi- int a

Initialization.

Initialization seefers to assigning or storing assigning or storing a specific value to a variable.

Egi- a=5;

state initialization

a=10;

Dynamic initialization

c = a + b

Non. Primitive Data types -> Data type that es derieved from primitive datatypes.

Type Conversion

(is defined as set of variables, constants of authorities)

Implicit

when the datatype of gresults, gets converted into higher most datatype avilable byte har hierarchy

Data type of the result gets converted into specific type on perusers choice.