Types of variables in Java)

· Variables: A Variable Provide us with named Storage that our Programs can marify rate. Each variable in Java has a specific type, which determines the size and Layout of the Variable's memory.

Syntax for declaring variable:
[data_typo Variable = value;

Expl) int $\alpha = 10$;

doubte Pi = 3.14154;

Chas $\alpha = '\alpha'$;

· constant: During the execution of a Program,

Value of variable may change. A

Constant rever change. A

data that never changes.

Syntax fox declaring constant!

Static final datatyle Constant Name = Valve;

Exm: - Static Lina float Pi= 3.14159;

#3 kinds of variables in Java

Local Variable

ti) A variable that is declared inside the

method is cauced local variable (ii) Local variables are created when themethod

(iii) Local variables are created when themethod

(onstructor or block is entered and the Constructor ox prock strong on prock exits the method, Constructor or prock,

(iii) Access modificas cannot be used for Local variables.

(iv) There is no default value for Local variables so Local variables so Local variables should be assigned before the first an initial value should be assigned before the first

· Instance variable

ti) A vasiable that is declased inside the Class but outside the method is caused instance variable. It is not declared as Startic. 11 x0 5 101x01/ min

(ii) Instance Variables are Created when an object is executed with the use of the keyword inew and destroyed when the object is destroyed.

(iii) Access modifiers can be given tox instance various

(iv) Instance variables have défault vouves. For numbers the default value is O Fox Booleans it is false Jand Fox object references it is mull. Varues can be assigned during the declaration or Lithin the Constructor?

(24) Instance Variables (0x Non- static Variables) Variables (or) address variable. It cannot be accessed

· xass/static variables (i) A variable that is declared as static is comed static variable. It connot be (ii) (Lais variables also known as static Local. Variables are declared With the statice keyword in a chair, but outside a method, constructor ox a block. (iii) Memory is anocated only once for the static variables Isrellective of monof object is correct. (iv) Static Variables can be accessed wing reference variable, or Using Class name of ord solver of sometime Compete is a company the traine of and L' boxestob brid on browns ont the object is detan and Exm! De Clars A modis of modern 2000 homes 2000 homes inte dataj= 50% // instance variable Static int m= 100; //statio vasiable Void method () Childud Gaspel Sit n = 90 / / Local Variable