Chapter Z: Reference Types - If its not a princtive, its a reference - Will always point to the memory storage location, unless noll - NCf ++ doesn't work, it would increase memory location. - only = and logical on reference types other than string double a = Object. method (); reference declaration = nul Button b; be ven Button(); Object - Juva has automatic garbage Collection Constructor Button one = new Button (); K Still only 1 Button, with 2 references Button two = one; you must close the object as any assignment is by reference only Object a = new ... ; t logical operators are only true if both references point Object b = nev ...; a == b -> fulse to the same object a=b } > tre void Methol (Button b) & b. Set Lasel ("hello");

Chapter 2: String e = "";

String other = "hello";

String next = other; Strings:
- lun be ugget with + and += first" + "Second" Two string objects in memory - only != 3, == can be used Useful String methods String. length () String. CharAt (int) String. Substring (inta, intb) String. Contains (char) lazy = "11" + 45.3 = "45.3" direct > Integer. parse Int Pouble. parse Double - rough - which have defined length - can be dynamically expanded with loop int[] a = new int [10]; - (an he multidimensional Array List Array List & type ? name = vew Array List & type ? (); nuve add (+pe); Stringsargs Command Line args

args [0] = "hello":

args [1] = "worlk"; Java Program hellow world The Enhanced For for (Strings: Strings)

Chapter 2 Exception Handley try: - do this } (atch (Exception a) { Cutch: - do this if try fails for 3 finally & finally: - do this no matter what Cornor Exceptions: After try or try > cutel Arithmatic Exception Checked Exceptions EBased on Number Format Index Out of Bounds juvatio. EOF Exception Programming Negative Array Size File Not Found error Null pointer IOException Interepted Exception South Elevent Throw 3. Throws with try or throws - don't throw off main function "Bad Practice" throw new Arithmatic Exception (" Bad math"); throw the exception Public Static void method () throws IOException