Switt 4 SL review LIJIA XU Var names : Set Lstring = ("A", B, "C") Print ("The value is (my Variable)") (Intel names insert ("D") is names, contains "A" var names: Set = ["A", "B", "C"] {- m-} elses 11 this is comment for nane in names { } for name in names sorted() { 1x comment also */ 1 Let x=0.0, y=0,0,2=0,0 set A. union (set B) Var a=42 Dictionaries: Dictionary (key, value) sorted Int Double and Float Let one=1 Type Annotations: 3 Bool String var dies = [Int: String][) venue dies ("A")=nil * Let old Value = dics. update Value ("A", torney var May: Strmy { Mag = "Hello" if let removed = dics, remove Value (for beg: 87) Operator: Unary, Binary, Tenary forl key, value) in dies { print! -- } sekes (-,!,),(+,-,*,1,%) (a?b:c) 3 Tuples < print()} string concatenation i "Hello, "+ "world" func fun(x: Int, y: Int)>(Z) Int, k, Int) [return(7,1) func sometimetion (P1: Int=12) {} Input tunes Compand Operators vow a=1 Some Function (P1:6) SwapInts (a:2x, b:2y) Comparison Operators == ,! = , >, < , 7=, <= Some Function () [time sway Ints lai nout Int, Tenary operator (question? answer!: answer) Function Types as Pavameter Types b: mont Int) { Tunc print Result (mathium: Let tempA=a Int) > Int a: Tut Lot A= b gender == 0? print ("male"); print ("Founde") Int) > Int, a: Int, bInt) { } Range Operators closed range operator ... print Result ladd Ints, 2,33 closures: 4 b = temp/15 1...3 1/1,2,3 La...b) slobal and nested functions are special kind of half-open range operator (a. . sb) { (parameters) > return type in statements} 1.. 23 11 1, 2 Soptionial cont contain any thing else than defined The sorted method: var reversed = names. sorted by: { (s1: String), s2: String) > Bool in returns (7513) Logical Operators ! a , a & & b , all) Inteering Type & var reversed = names, sorted (Optionals: var my lode: Int? = 404 by: {(s1, s2) in return s1752}) single line omit nil > my Code = nil Switch with Where var reversed = names. Sorted ({(51,52) in 51,752}) shorthad argument =) var reversed = names, sorted by: Let my Point (1, -1) while arb { $\{50 > 51\}$) * reversed = names.sorted(by: >) switch my Point (x, y) { print(...) case let (x,y) where x == y: } Tuples => Let error = (404, "Not Found") print(...) Let Latus Code, status Message = exior repeat { case let(x,y) where x = = -y; a+=6 or use index numbers 11 can name individed names print(...) } while a 70 print ("(\(\x), \(\y))") for x in 1...5{ let error = (status Code: 404, status Mag! "Not found") Come letling): print ("(statusCode)") or print ("(error.0)") } continue: stops loop, restars } brenk: stop
beginning next cycle whole loop Enumerations: common type for a group of valles * Unlike (and object-C, swift Znown no defaulted whole loop Fallthrough: swift detailt have break strings: Let char = "-" { var empty ones: " enum Compass { or enum Compass { cuse N, S, ZW} case North Nav direction = Compass. east case South instances of Class or Structure check 15 ehar is empty E. 3 Vary estimy = String() case west structures are value types Arrays: Array CT> > [T] init : Var ints = [Ent] () } all basic types in Swift (int. Bool ...) are Value with Default var array = [pouble] (repenting: 0.0, count:) classes are Reference Typesichek it refere Literal > var aviay: [String] = ["A", "B"] [theck; the same instance = = = oy !== type inference you army = ["A", "B"] armay is empty * Stoling, Away, and Dictionary one structures Modely: array append ("c") {for x in arrays A lazy stored property's initial value is not calculated until the first threis used range: avray [o... 1] = { "p", "0"] // [""0", "p", "c") # lazy must be variable a computed property array, insert ("F", at 10) tor (index, value) in provides a getter and, uptionally, a setter Let removed = array, remove (at:0) array, computed property with a getter but no or sarray remare last () on uneverted () { setter is called rend-only computed mysty sets: Unique elements printl'Item (Index+1): property Observers: called overy threavolus Var set=Set (TXL) \(value)");

Var total steps: Int = 0{ will Set (newstep) { printl" to \(now Step)"}didset { if total Steps > old Value & print ("added Ltotalsteps-old Vale)}} Type properties dass SomeClass & static var some String = "Something"} pilit (Some Class, some String) modifying Value Types = mutating keyend Type methods static intront of tunc Subscripts: access values from un instance struct Time Table { let multi: Int | Do not Subscript (Index: Int) > Int { wite nowide return multix mulex }} Let three Times = Time Table (multi: 3) Veguined Print (three Tines [5]) // prints 15 initial & all stored properties of a class, must be assigned on initial value out init deinit { 3 > only for classes