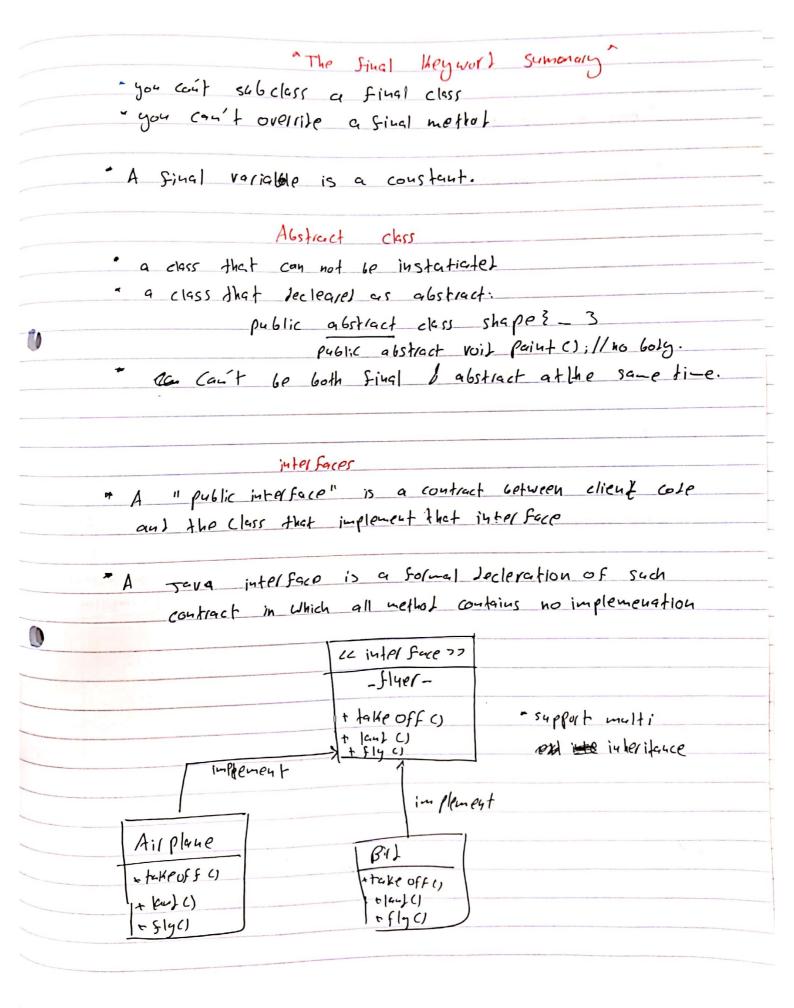
07/08/2020 by yore	r
Java - OOP	
* your don't have:	
Pointers arithmatic.	
* Preprocessor	
automatic type conversion.	
Global Sunction and Varibales	
opersion over Loading.	
multi interitance.	
	-
Jara offas more 6c algorithms	
* gava GC: . heap ,	
ر کورک کر کورک کاری و دیادر کر درود کاران کاران	
unreachable , objects , ne 1701 (us d 1100 ste	
Java -Class:	
example:	
public class ship	0
Private String shipcop;	
Public Voil set captain lane (string name)	
ε captainna-e =na-e;}	
3	
* is up limit to give outsile access we should do get/set	
** posault constructors	
o Every class has a constructor, in case the programa	
2124 t write any constructor, the default will be supp	plie)

Java classes may be organized into packages. Every such package should contain classes that all related to the same allater subject float - 32 Git 3 percult short is part double - G4 Git 3 of 2041p. of 2041p. = lefcult. public class Example private int could =0; // counter is a primitive Private Box 61; 11 61 is a null reference. Lis at the constructor public Example ( -\_ , \_\_, 61 = NEW BOX ( -- > -- ), Reference in action Box 11 = new Box (5,6,7); Box 61-62; 61-0761-62 =0 x62 stack

* The only way to pass arguments at Java is	
65 Value.	
Arrans:	
Arrays:  "memoly for the array reference is allocated	
91 the stack	
a home on C.C. Na cure object is	
- hemorey for the creat object is	2)
allocated dynamically on the heap (Jan	
W I I I I I I I I I I I I I I I I I I I	
to copy an array we can use	
System, array to py (SourceAr,	
5/c_5t_14)x,	
target, target-indx, length)	
inheritance:	
* Java implement single inheritance	
Public class shape 3 shape	
protectel 2046/e area;	
public double get near() 13	
Rectargle / Circle 1-5460	१८६८
pable class circle exten) shape 2	
3	
* Attributes of the subcless can hile members of	
the supprelass. In this case we use super.	
static members (neither variables nor methods) are never inher	itel.

costing usp instance of to test the type of an object. - The equals methol -\* the operator == determines if two reference are identical to each other (thatis 18F1 to the same Ubject.) The equals method letermines if the object our equal by there continets, but necessarily have the same reffrence. \* Static Hegword \* are shared among all- instance of dasses static attribute can be accessed from outsile the class if markel as public. \* static block cale (static initializer or static oustincted) execute only once, when the class is loaded.



Exceptions	& Ellos
PITONS	0 01101

Literations / Citors	
Ellos:	
* Use) to indicated a 112 miles in a 111 of	
"Used to indicated problems that mostly can't be fi	xe)
in Runtine	
Like,	
stack overflow Ellor	
Oct 21	
Oct of menory Error	
Exceptions:	
there are two kinds of Exceptions:	
1- run time Exception:	
Tany property 11 1 and all a	
- any expection that extent Rune time exception	4
- counted as Bugs and must be fixed to complet	م
$\mu \nu \nu$	
- unchecke) by the co-piles - sevelopos ses ponsi	hiltz.
2 - Application Exception:	
- any expedion that rosent extent	
Runetime Expection	
5.1 [CC1] OU	
- usel lefinel exceptions.	-
v b19 2	
1/ Block where we expect to throw	
1/a expection	
3	
CRItch ( 2	
. 3	

thows - declear all Thrown expections throw - actually creates an expection bethrow it. example: public class check public static int check (strings) throw I Format Exce 3 int x = Integer. parse int (s); if (x>100) thou new aformed Exce ("dunba & Big"): refurm x; Jaya collection" & Java object that holls an object gloup. \* number of objects in the group is dynamic - there are 4 types of collection: \*collection: undrateled group, duplicates are pamittelin a set - unostheret group, Juplicates are folliten. List - oldered group, To ... may- group of Key- Value pairs Implement Vector, Array List, Linkellist synchouizel not squehlorizel comparedor: specifies how to compare between two objects (on parable: 11 1, an object is compared to another.