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DESIGNIA CLASS RECTANGLE WITH
DATA FIELDS WIDTH, LENGTH ARC.
AND COLOR. THE LENGTH, WIDTH
AND AREA ARE OF DOUBLE TYPE
AND COLOR IS A STRING TYPE
THE METHODS ARE
GET_LENGTH()
GET-WIOTH ()
GET_COLOR() &
GND_AREA()
CREATE 2 OBJECTS OF RECTANGLE
AND COMPARE THEIR AREA AND COUR
IF THE AREA AND COLOR BOTH ARE
THE COURSE OF THE MOTICAL THE

CREATE 2 0B AND COMPARE IF THE AREA A THE SAME FOR THE OBJECTS THEN DISPLAY "MATCHING RECTANGLES" OTHER WISE DISPLAY "NON MATCHING RECTANGLES"

DIAGRAM: PH' ACCESS MODIFIER TABLE

CLASS & OBJECTS THEORY

DUESTIONS WHAT IS CLASS & OBJECT IN COP? S NOW TO DEFINE ANY CLASS IN JAVA EXPLAIN EVERY CLASS COMPONENT IN DETAIL!

III) WHAT ARE THE DIFFERENT ACCESS SPECIACRS IN JAVA AND EXPLAIN IN

WHAT IS PACKAGE & INTERFACE

WHAT IS THE SIGNATURE FOR SUB CLASS & CLASS HAVE MPLEMENTATION OF INTERFACE V) WHAT IS THE SIGNATURE OF METHOD IN JAVA & EXPLAIN CAIN COMPONENT OF METHOP IN DETAIL VII) NOW TO LEATE AND INITIALIZE THE OBJECT IN JAVA VIII) HOW TO ACCESS THE MEMBERS it) WHAT IS DIEF IN CHA & JAVA LAN WE CREATE OBJ POR MAIN METHOD CLASS BASE CLASS -> SUPER CLASS Chup class -> SUB class MULTIPLE INNERITANCE IS NOT INJAVA WE CANNOT USE EXTEND MORE THAN ONCE IN JAVA USE INTERPACES INSTEAD WE

NORMAL CLASS SIGNATURE ACCESS_SPECIFIER CLASS CLASS-NAME & METMOD DEGINITION; PUBLIC CLASS STUDENT & SIGNATURE OF CLASS DURING INMERITAND CLASS COLLEGE SUPER CLASS CLASS ÉTC CATENA COUCHE . J SUB CLASS O SIGNATURE OF CLASS DURING IMPLEMENTATI ON OF INTERFACE into INTERFACE IZ YOU DISPLAYZ (); ONLY FUNC OECLARATION

INTERFACE I, void volo DISPLAY(); CLASS XY2 IMPLEMENTS I, I2 3 VOID DISPLAY() } VOID DISPLAY 2 () } ACCESS_ SPECIFIER CAN BE USED IN i) CLASS ii) met nons 11) VARIABLES CLASS CAN ONLY BE PUBLICOR DEFAULT BECAUSE JAVA
COMPILER STARTS ITS ONLY ONE CLASS CAN BE
EXECUTION FROM THE PUBLIC OR NONE. PRIVATE PROJECTED: NOT USED IN CLASSES AS WE CANNOT USE 175 FUNCTIONS AND DATA MEMBERS

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	00 081400					
The second secon	NETHOL (CESS	PRIVATE	PROTECTED	DEFAULT	PUBLIC	
L	CATION	YES	YES	YES	465	
	CLASS			·		
iis	AME	NO	ES	# YES	465	
	CCAGE B CLASS					
	mE	No	YES	YES	YES	
PAC	KAG€ V SUB					
	ASS					
	CF	NO	YES	NO	YES	
1	CKAGE BUASS					
DIE		No	No	NO	YES	
PAC	KAGE	•				
	N SUB ASS					
\mathcal{C}	COMPARE 2 STRINGS					
	R1.color.equals (R2.color) R1.color.equals-Ignore(ase ()					
	* 1. co 10° . equals-19nore (ase ()					

no //Same class void display () System out pointln ("Heuo"),

you'd display 2 () display(); Class Demo, 1 extends Demo Vass Demo 3 //Same package non sub Void demo 3_dsplay() Pemo D1 = new Remo(), D1. display();

Package pz; chipost p. *; Class Demo4 extends Demo

Extends Demo

Void demo4_display display() remos / Different package non sub das.

Demod, = new Demo()

d1. display() Class Pemos