B. C.	INTERPRETED ys. COMPILED
	1 del 1 1 1 dec 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	LANGUAGES
	hours have more many
	Interpreter townslates one statement at a
	teme ento machène code.
5.8	Compler scans the entere program & towardates
	whole of It ento machene code.
	me this lest and one in taken to say
.00	Interpriter:
	Town In place to the still a sondeficial.
\rightarrow	One statement at a time
	In Interpreter se needed every time
\rightarrow	BPartfal execution of an error occurs on the
	heigeams.
\rightarrow	Lasy for programmers
	Janes deliverité.
	Comples:
_ _	Entere pergram at a teme.
\rightarrow	Once compled, 315 not needed
-	Entere pergram at a teme- Once compled, It's not needed No execution If an error occurs Usually not as easy as enterpreted ones
	Usually not as easy as goter preted ones
	9s Tava enterpreted or compled ?
	Java is a herbred language both
	Java is a hybrid language both compiled of interpreted
	- constant

Java compited The Vey Java Thany harry Java Javac class and start and start I JUM can be used to enterpret thes elegte code. - The leyte-code can be taken to any → Hence Java & platform independent. Enecuting a Java program Javac Adwast. Java Java Adwast. PACKAGES IN JAVA

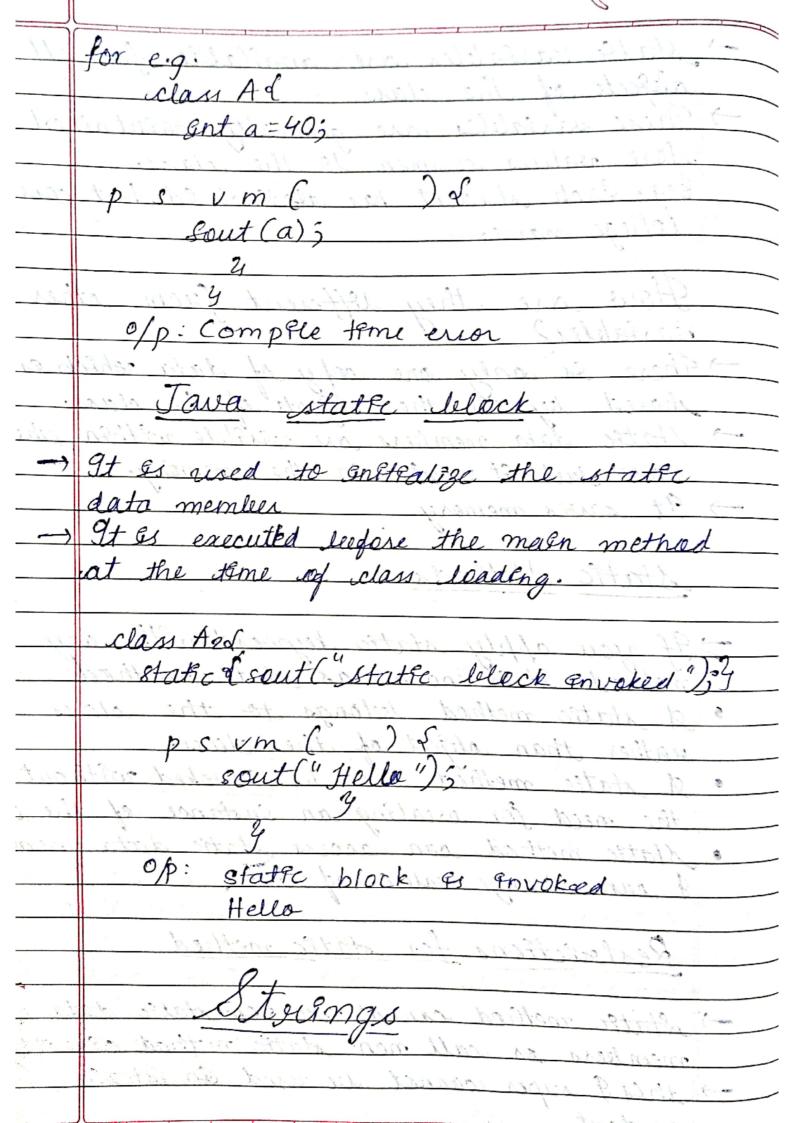
-) A hackage of used to grown related classes

-) Rackages help on avoiding name conflicts There are 2 types of playors packages -) Built en packages-fava API
-) User defined packages- Custom
packages

sengs, photos, song, photos org. as folder classes Java classes org. as hackages Useng Java packages Import Java lang. *; -> amport everything from Java · lang Emport gava. lang. string; -> emport string from gava. long != new gava. lang. storing ("Harry"); -> Use without amporting How to create packages on Java? Javac -d gavac Harry Java -) creates & Harry class Javac -d. Harry Gava - creates a package Pavac -d. Harry Gava folder / We can keep adding package feles seke thes Blank spaces We can also create enner packages by adding "hackage anner" as package name: folder

1	There harkages and created can be
	There packages once created can be used by other classes.
\ \mathrea = -	and the state of
4	Acces modifiers en fave
	The chart of the contract of t
	Access modifiers determine whether other
	classes can use a partécular feeld or
	Envoke a hartfular method-Can lee
	public, private, protected or default (no
`	modifier.
thing	Emport freeholong & and import survey
1011	7 2000 1/2 1000 1
Modifice	r Class Package Suleclass World
string -	sorport gover lange strong it sorprost
Cla	factor film film toi
Prilette	УУУ
Partecte	15 - Mr gave 12 g storing X (Herry X 2)
Default	(mg) and Year of N
Pourvate	7 N N
1	and is related trace of shorts
	State Rezinanad
	Static Keyword
- 50 0170 12	
	Statie keyword is applicable for variables as well as methods.
1 1/2	It is used with an instance variable of
	a class or with a method of a class.
->	The make method is always declared as
	statee.
	The state can lee:
The same of the sa	varfable 2) method
3	lelock 9 nested class
	teleter

<u>→</u>)	State variables are available for all the
	abserts and the down
->	These variables are generally maintained to
	These variables are generally maintained to store values common to the class.
	Ecg. Each student has distinct id but common
	Collège name.
	The state of the s
	How are they different from other variables?
	marfables 2 mil signos als
\rightarrow	There so only one copy of data which es shared by all the abjects of the class.
	shared be all the algerts of the class.
->	Statec data members are vertle withen the
	class lust It remains In the memory.
\rightarrow	9t saits memosy.
7	9t saves memory.
	Static Methods
-)	If you apply state keyword with any
201	If you apply state keyword with any method, It is known as state method
•	A state method belongs to the class
	ocather than object of the class.
•	A state method can be invoked without
	the need for creating an enstance of the class
	Static method can access static data members
	A can change value of St.
	ACACOTT .
	Restockettons for states method
-)	State method cannot rise non-static data
	members or call non- state method derectly.
\rightarrow	the & super cannot be used on state
	centext



Java- Jang. String class is rused to create string object. Thering objects one stored in a special memory area known as storing constiport Towa uses they to make It more memory effectent (lecause no new objects are created If It exists already in storing constiport)