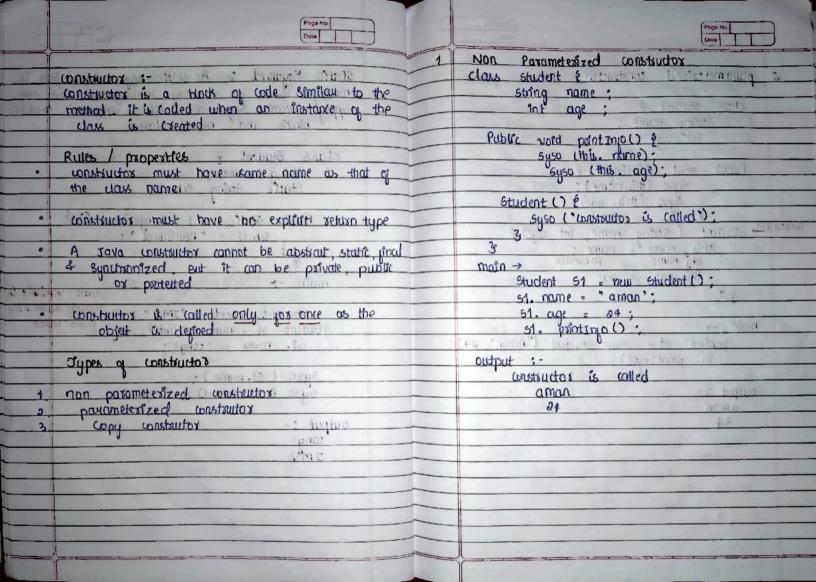
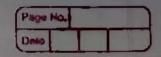
	Page No Deta
	Encopsulation
	- 32 eachetellas halas s
-	Access modifiers Parkages
_	Destant 4 Horizad AMDIO
-	Pacroges :-
	Hockages in Java are used to group related
	Packages:- Anckages in Java one used to group related classed which help in avoiding name confuits
	Thora are two to at our such as
1	Ruilt in southern
a	These are two types of packages Built in packages user defined packages
	uses agined puringes
1	Built so parkages
	Built in parkages import java. utils *: import java. Array; import java. lang. string;
	impost inva sustanti
	I Import java, Japa, String;
2	Package Animal Package;
	Package Anemal Package;
	Public class Animal &
folder	- Artifical Public void make Sound () &
40/0-	Animal Java syso (" Animal make sound");
	State as the state
	3 (Oppostory sa
	împost AnimalPakage;
	Aublic class main &
	Public static void main (Storn augs 1) &
	Animal A1 = new Animal ()
	a1. makeSound ():
	Animal A1 = new Animal ():
	output:-
	Animal make sound



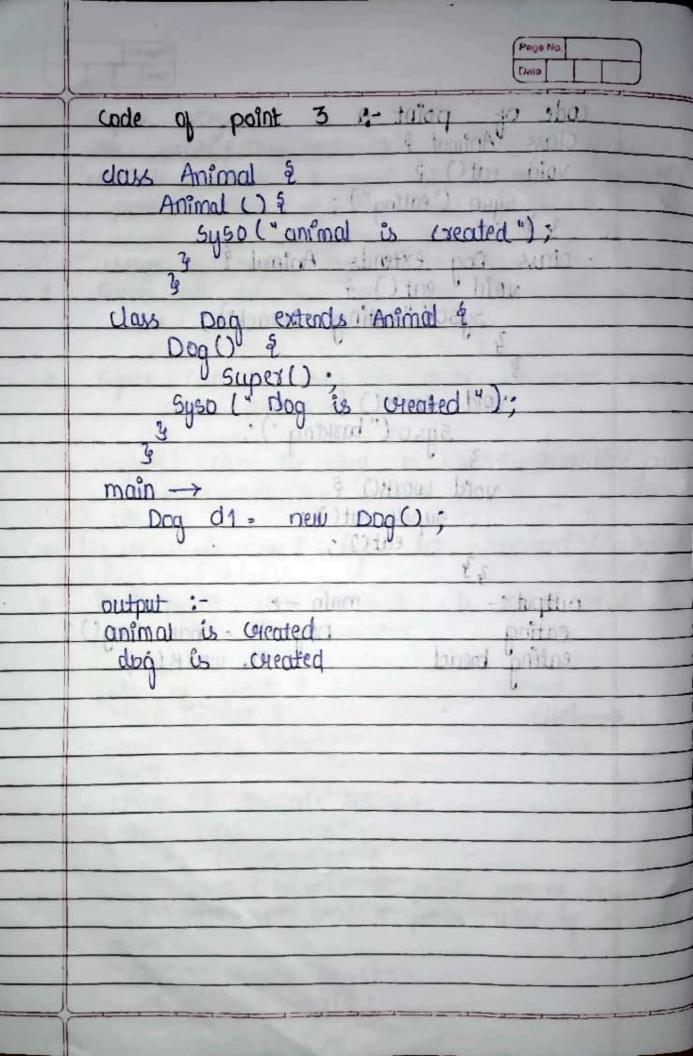


Static Keyword: The static Keyword in jovo is mothly used jox memory management we can apply static keyword with variables; methods, blocks and nested classes class Student & Missing \ Static String school; Public Static Void change School () & school = "new School "; main -> static variable is Student. school = "JMV"; -> disettly accessed by student s1 = new student); 51. name = "tony"; syso (st. name); output:tony
JMV syso (51. 5chool);

	Page No.
	abstract class Animal & in (occutario)
	abstract void walk (); - OR
	3 Public void unike) &
	class House extends Animal &
	Public void walk() 5'
	syso (" walks on 4 legs");
	3
	claus checken extends Animal &
	Public vold walk() \$
	Syso ("walks on a legs");
	3
	main → — nom
-	Horse h1 = new Horse();
	b1. walk();
	walks on 4 legs
-	www. on 4 days
	abstract class Animal & -: 25010
tash L	abstract vord walk();
unial	Publici void eat() \$
	Syso ("Animal eats");
	3
	3
	(Same)
	main →
	Horse h1 = new Horse();
	h1. walk() -;
	h1. eat ();
-	output:-
· Santa	walks on 4 legs Animal eats

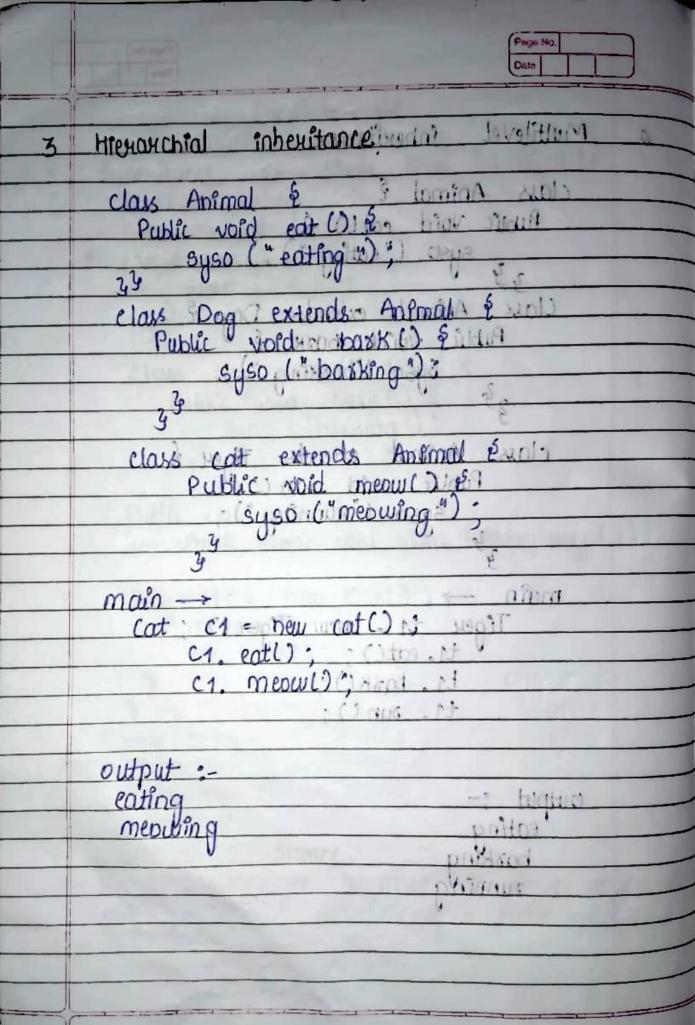
Je a class has more than one construct

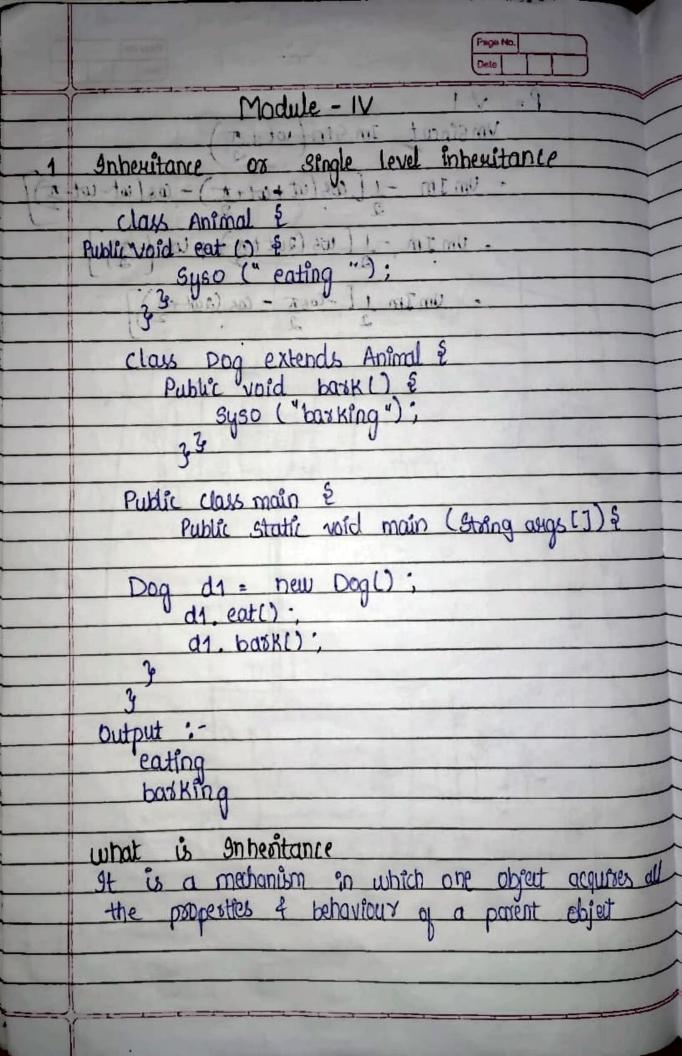
- tox with different parameters, so that every
constructor can perform a different tast Class Student & String name; and totals as Student 51 = new student(); Student 52 = new student("amon", 24); i (Inmera mon - Ingilia Ingilia) output :this is default construtor aman 24 (1000) 1917 (109)

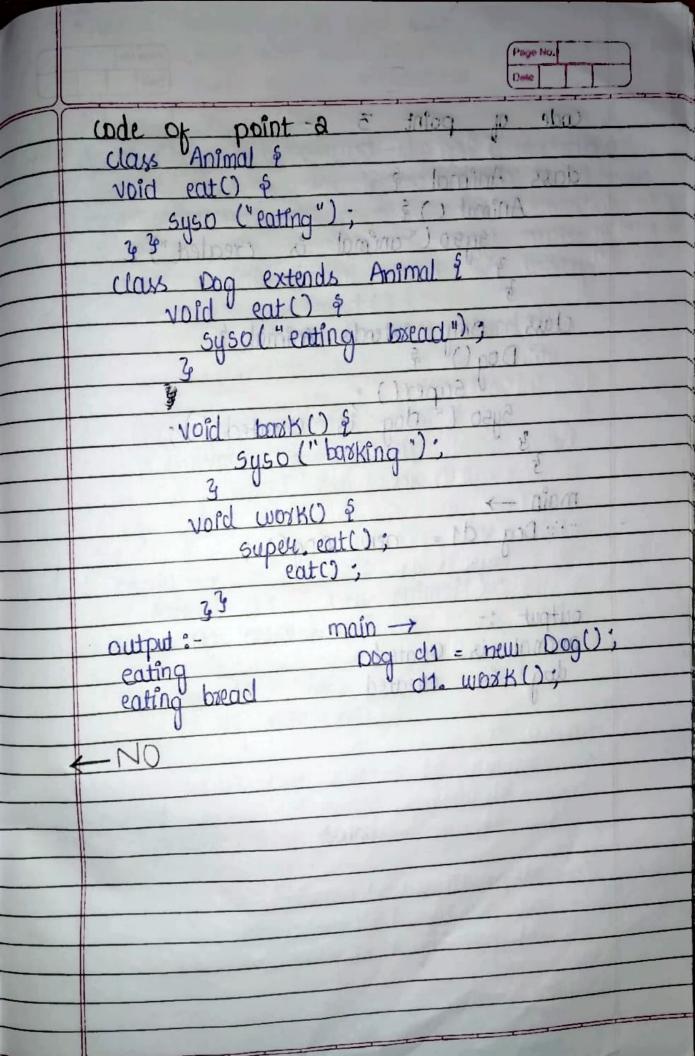


Sules of military establish total sound none
Test bod per largog see transmitting smith total tallet Page No.
La Tale 18 3 William Malin Malin Date
Method oversiting
Method overloading (Polymoxphism)
I g a class has multiple methods having same
Rules also name but different in paremeters or different
destrition return types of different in number of pourameter
desinition passed is known as method overloading
TO LABOR STUDY MAN
class Student &
String name;
ent age;
v protest about s pod 2013
Public void print Tryo (String name) & Systo (name);
Syst (name);
Public Void print Injo (int age) &
3 Homer to longer
Public vord, printInjo (storng name, int age)?
Syso (name + " + age);
3
G O Douge Dition . No.
main ->
Student 51 = new student ().
51. name = "aman"; - s' tuntur
51. age = 24 salan hasi.
shred bash
51. printInjo (61. name):
51. printing 0 (51. age);
51. point Injo (51. name, 51. age);
output :-
aman
aman 24

	Page No.	7
	Multilevel Inheustanueine in historia	
	class Animal & bound col	
	Public void eat (5) & (1)	
	Class Animal extends Dog & Mis	
	Claus Animal extends Dog & Minimal Public voi de barker 5, 111	
	33	
	class Animal extends Tiger & Public void run () & Syso ("wunning");	
	syso ("aunning");	
1000	No. 13	
	main -> Tiger t1 () inew iTiger (); to) 11. eat();	
	t1. eat(); t1. bask(); t1. sun();	
	t1. sun ();	
	Solito Solitos	
	output :- p. 13.15"	
	basking	
-	3 Urining	
-		







Kules: - methods should have same name must have same parameter as pasent method bag must include inheutances [000] Method overriding

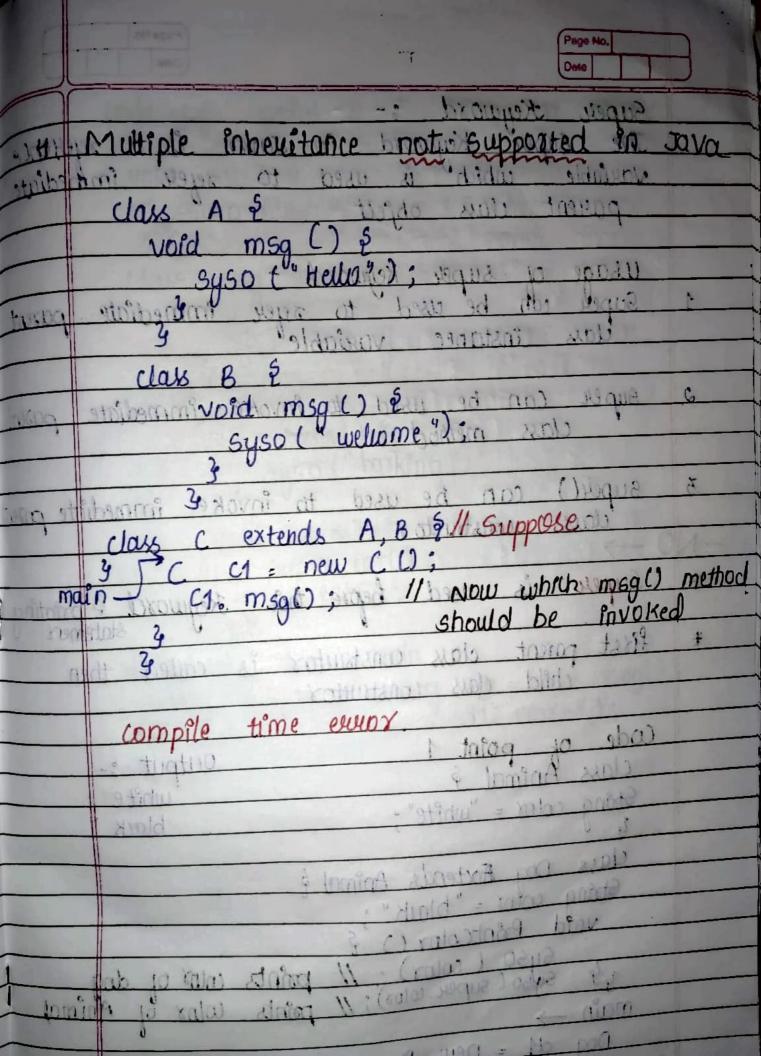
If subclass (child class) has ithe same method
as declared in the parent class it is known
as method overriding in Java

class Animal &

void make Sound () & Systo (" Animal makes sound"); clars Dog extends Animal &

Nord make sound() &

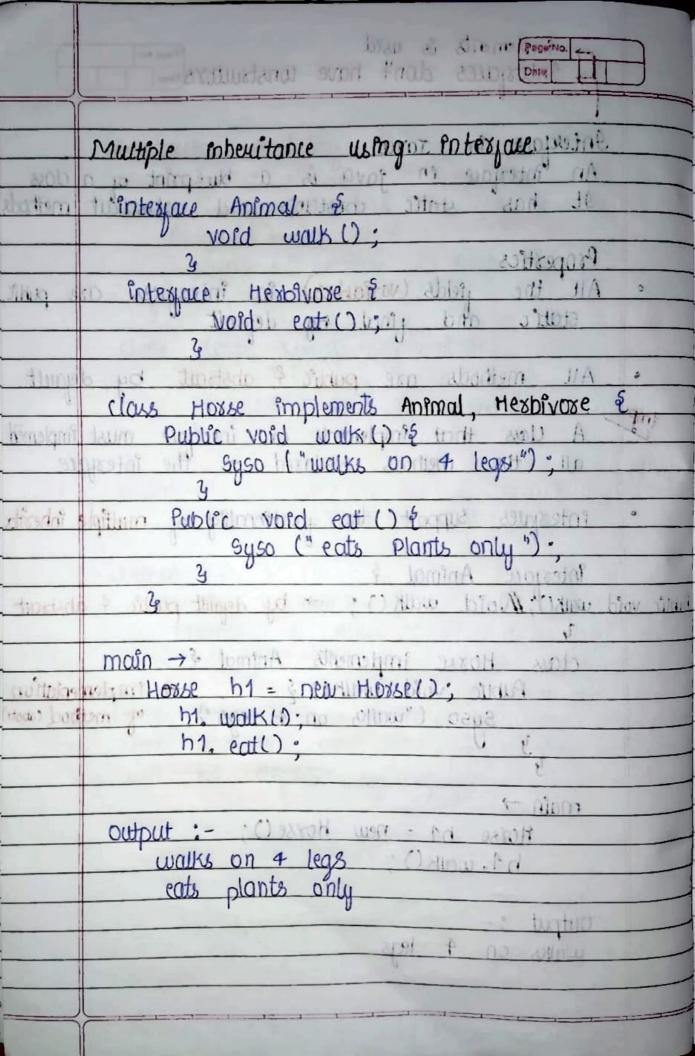
Syso ("dog basks"); main -> Animal a1 = new Animal(); 01. makeSound(); Dog d1 = new Dog();
d1. makeSound(); Otrobure were a fe traduction output :-Animal makes sound dog basks

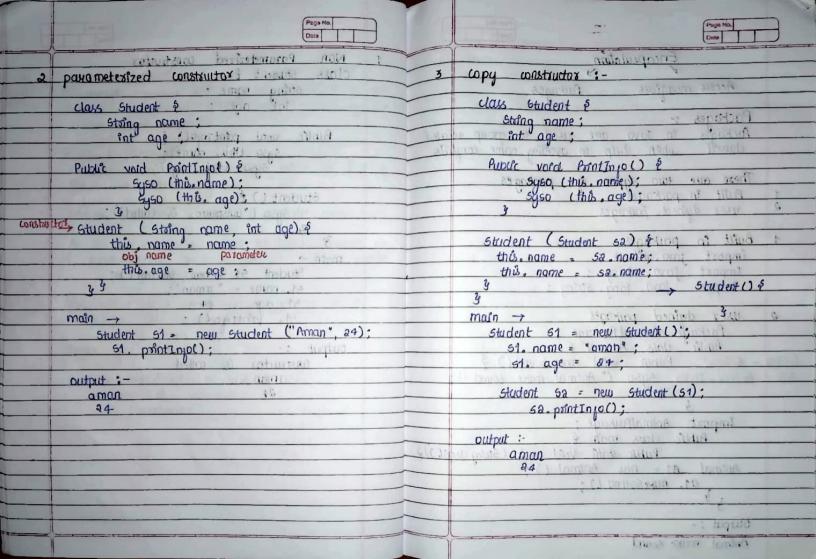


	Paga No. Date
	Super Keyword :-
ova	The super Kenword in Java is a delevence
	variable which is used to reject imprediate
	variable which is used to reger imprediate parent class object.
	Usage of super Remord - and Primediate parent
	Usage of super Keyword - 0000
1	Super con be used to sejer immediate parent ulas instance variable
	uau instance variable 3 3 2003
	super can be used to invoke vimmediate pasent
ವಿ.	class method malou) orga
	cass manda mana
3	super() can be used to invoke immediate paren
	class constructor A about a and
N	
off of	(Superoris used before this " Keyword & printing statement
	DEMOVAL SCI CINO IC
*	first parent class constautor is called then
	child class constructor
	Code
	Code of point 1 Output :- class Animal & white
	String color = "white"; black
	2
	class Dog Anctends Animal &
	String count = "black";
	and Prontains 17 \$
	SUSO (color); // prints color of dog
	25 syso (super. colox); // prints colox of Animal
	$main \rightarrow$
	Dog d1 = new Dog ();
	a1. printcologly;

	Page No.
	Constructor unaining lamina and tustado
FOAIR	Animal () & Animal & 1st call Syso (" Locating a new Animal");
	Closs Horse extends of Animal & and call Horse () & and call Syso (" (reated "a Horse");
	main -> (new 1 House () ; coll
	Output:- Creating a new Animal tupus (reated a Horse)
	Note: 4 is important to write Public jor base dein class methods otherwise the acress modifier will be default by default
	\$ (Same) ==== (Same) → ninn
	CD4, augl 10, 2000; bd control of the control of th
	CONTRACTOR OF THE PARTY OF THE

	Interjaces don't have constautors and
	An interjace en jova is a bluepoint of a closs It has static constants and abstract methods
	An interjace en jova is a bueprint of a closs
	It has static constants and abstract methods
	· () Albu baov 4
	Properties
0	All the fields (variables) in interfaces are public,
	All the felds (variables) in interfaces are public, static and final by default
•	All methods are public & abstract by default
qmp	Smill limited Transferrit was fotomice must implement
الف	A class that emplements an interjace must emplement
	all the methods delaxed in the intexpue
0	intexpues support the functionality of multiple inherita
-	interpres support the guiranters of
	galaciaco Anemal S
Public VI	old walk(); //void walk (); -> by default public & abstract
unice v	1
	Class House implements Animal & Implementation Public void walks on 4 legs "); of method cousts
	Public void walk() & - implementation
	syso ("walks on 4 legs"); of method (wow)
	y Change and
	main ->
	h1. walk();
	n i would atable atable
	walks on 4 legs





	Page No.
1	
	Abstraction in California Constitution
13.5	abstraction is a process of hiding implementation
9	abstraction is a process of hiding implementation details and showing only junctionality to the wex
	Abstract class:- reyword
	A class which is declared as abstract is known
	as an abstract class in Jova in
	300 109
	Properties
0	An abstract class must be dellared with an
	abstract Keyword & att ") gang
۵	It can have both abstract and non abstract
	methods omna ponta) trabuta
0,	It can have constructors and static methods
۵	It can have constructors and static methods
	also.
0	It can have senal methods which will pace the
0	subclass not to change the body of the method
4	Student 39 - con Student anon-
	A 0 1 2 2 1/2
	Animal animal = new Animal();
	cannot instanticate the type animal
	Cannot instanticue the type animal 1
	(Run time eurox)

T.