d.	DATE :// PAGE :
	Solid Principles of Ooks
	S - Single Responsibility principle O - Obon / closed principle
	L - Liskov Substitution Principle
	0 - Open/closed principle L - Liskov Substitution Principle I - Interface Segmented principle D - Dependency Inversion principle
	Advantages of the following parinciples.
	Help us to write better code. Avoid duplicate Code
_	Fasy to maintain
	Easy to understand Plexible Software
	Reduce Complexity
•	Single Responsibility
	"A class should have only one Reason to change".
	V
	This means that every class should have single exponsibility or single Job or single purpose.

		DATE:/
		PAGE:
Ex	class Marker	
CX	E MOUNTE	
	String name;	
	string color;	1
	int year;	
	string color; int year; int price;	
	3;	
	class Invoice	
	8	
	Private Marker Obj	1 100
	Private Marken obj; Private int quantity;	
	Public Invoice (Marker obj , int	quantity)
	FUSIC INVOICE (TIGHTED OG) INC	7-4-1
	the // constructor	
	2	
	Public int Calculate Total ()	
	ş	
	int Prico = (maceritaes. Obj. pric	o A this quantly
	retuem prico;	1 3
	3	
	Public void mint Voice ()	
	Rublic void print Voice () & // Print The voice.	
	3	
	Public void SaveInvoice()	
	& // Save data into DB	
	3	
	3;	

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ā)	Calculates total DATE:_/./* PAGE:
The second second	class Invoice - Print Invoice
	save data to DB.
	Salle and to DB.
	34 calculation logic changes > Invoice change graph printing logic changes > " BB Bgic changes > " This class is not following Single Responsibility Principle.
	Principle.
	class Invoice &
	Private Marker obj;
7	Eublic int calculate() // This class calculate 5 // calculate total the total.
	class Invoice Dao // This class saves the invoice to DB Invoice obj; 3i
	class Invoice Printer // This class print & private Invoice obj; the invoice
	3;

	DATE :/_/ FAGE :
2	Open/closed Principle This principle states that "Software entities (classes, modules, functions etc.) should be open for extension, but closed for modification which means you should be able to extend a class behaviour, without modifying it
	clars Invoice Dao
	Public void SaveToDR() // This class save. Source to DB
	3: This class is tested,
	Live and traston
	Now new request of saving to file comes:-
	Class Invoice Dao
	Public void SaveToDB() 1 This does
	Public void SaveToFile() open/closed
	pomuiple ;
	As we modified already existed,
To 1	Live, Tested class.

Interface Involcadas E Public void Save (Invoice 06); (DATE Solutioni Class Invoice Dao DB implement Innvoice Doo Public void Save To DB() class Prie Invoice implements Invoice Dao Public void Savelbage () 3. Liskov's Substitution terinciple If class B is subtype of class A, then we should be able to replace object A with B without breaking the behaviour of Program. child or Derived classes must be substitutable for their base or parent class. Ext Interface Bike & 9 void turn ON Engine (); void accelerate();

DATE :_/_/_ PAGE :-class Motoscycle implements Bite boolean is Engineon; int speed; Public void turn on Engine () Public void Accelerate () Claux Bicycle implemente Biko Public void twin On Engine () 1/ Since Bicycle dous not has engine Public void accelerate() This will disoupt the priogram Bike Motorcycle Pricylle This reduces the capabilities of Parent class by not limplementing

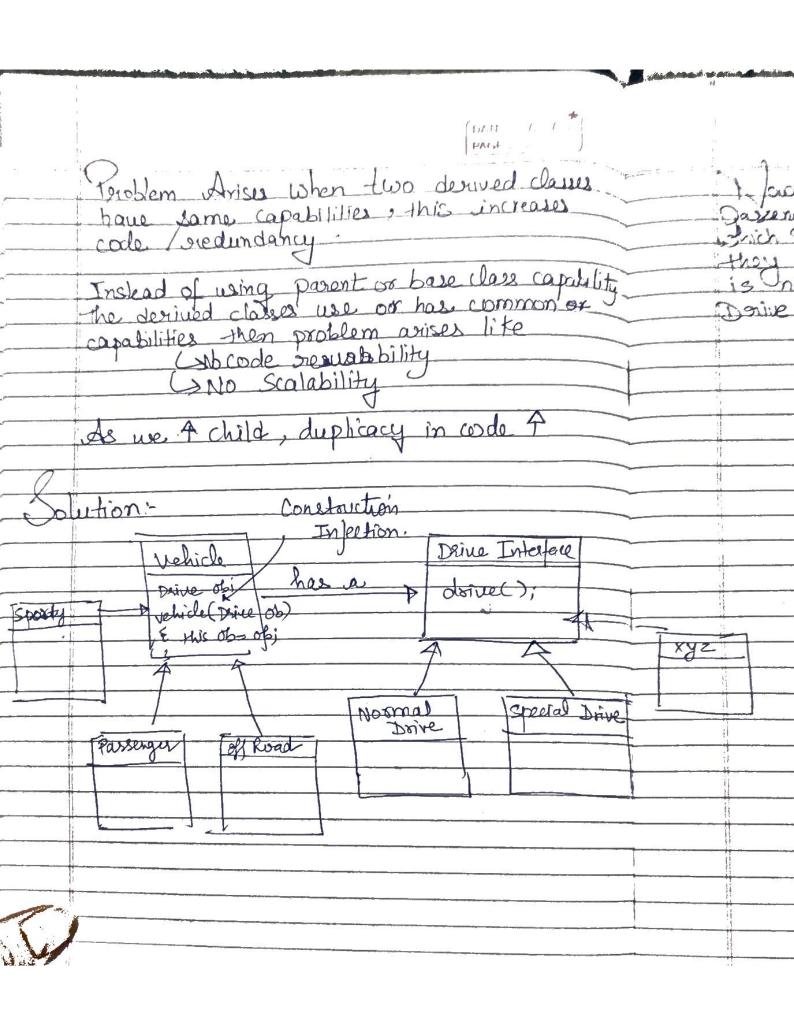
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	DATE:_/_/ PAGE:
4	Interface Segregation Principle.
	indement an interface which is relevant to therm.
Ex	Interface Restaurant Emplayee S
	Void wash Dishes(); Void Senver Customers();
	void Cook Food C);
	Class waiter implement Restaurant Employee
	Public void wash Disher()
	2 Not the work of
- Property	Public void serve Customesc)
	<u> </u>
	Public void Cook Food () // Not the work of
	E waiter.
	3
	into small preaces.

	DAT	E:_/_/_
de Marie Mandeleter — indicate e embase en servici (1) — internasse q	interface Waiter Interface (S)	
	void Serve Customer ();	
	a void takeOrder();	
	5	
	Litalon ChalTatestace	
	interface Chef Interface	
	Void cookfood(); void decideMenu();	
	void decide Menu ();	
	3	
-	The Part of Colo	
5	Dependency Inversion Principle Tit states that "high level modules	should not
	January on 1000-1808 Induces Born	should
	depend on Abstraction.	
	To local and Market Mar	thou then
	class should depends on interface ra	(INU) Mais
	Concrete classes!	
	Mary Tologlason Youthard	<< Interface>>
	Mouse «Interface» Reyboard	
	Wised Bluetooth wised Mouse keyboard	Hutel
	nouse Mouse keyboard	Keybowd
		U

		DATE :/_/
class Mac Doo	Kε	
Trool (a) ali		
Final Wiredke	eyboard key	board;
Dived!	mole mole	30)
Public Mact	Book()	
\$ 100.1	1	11-
Mouse	- new Wir	sed Keyboard (); ised Mouse ();
s income =		1 sed Iviouse ()
		jan-
Davian)	m di saiala G u
Design to	$11(ext) \rightarrow 0t$	e the principle for the
1. Strategy Desi	gn tattern	
is-a - is h	nas a	2
15-0		
	Base class	b
	vehicle	Parsenger vehicle
Sportly Vehide	drive()	10000
drive()	E Normal capability	4-
E / Override	2 capability	
	off road vehicle	
	19200	
	2 // oversite	-> gruplementes Special Capability
		Species of the state of the sta

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	W * 5	1
	Jow the Base dasses Dassenger, off road class Shich drive class Shter they wants to implement is not implementing a Darive ie (Normal of spec	as Base day
T VIII		
1 ZZ		
	•	