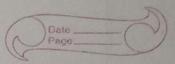
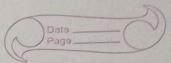


	Class As
	Animal random () {
	9 we child
	3 Class B: public Af class object as
And and and	Class B; public A; class a type a return type
	a return e known
	Dog random () & then this
	as covariance
	3
	2
4	Exception Rule: A child class should throw
	fewer or narrower exceptions but not
	additional or broader exception than the
	parent class.
	States logic exist suntime_ever
	-> Privalid - argument -> range - evror
	domain-evror - overflow-evror
	5 length - evror
	If parent class is throwing logic everor
	then child can throw too Privaled aggument,
	domain every but it can't throw runtime
	envior or range ennor.
	A THE RESIDENCE OF THE PROPERTY OF THE PROPERT

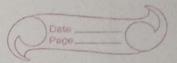


(11)	Property Rules: Come	Means that the child
10		
	things Compenty or	behaviour I of the parent
	Class.	- barent
	COMPANY COMPANY	THE WOOL
-	Class Invariant - It	is a xule or condition
	The control of	he this
	before and after a	my public method is
	Called.	O I WIND WAS TO SEE THE SEE TH
		dentilia de la
	Account	11 Invariant: balance should
	balance;	nover be negative
	4	
	lost not a later to the	This class break the
	Cheat Account	This class make the
	balana = -1	balance negative
	Sand The sand Sand Sand Sand Sand Sand Sand Sand S	and the
		a continuos a continuo a conti
	THE RELEASE THE PARTY OF THE PA	
<b>→</b>	History Constraint " T	ne ouholese
	the "66 hestone" or	he subclass must preserve
	paxent.	The actions of the
	(Account)	11 Withdrawal should always
	balana;	be used
	withdraw()	
	A	7 This child breaking the history by throwing an
		7 This child throwing an
	fixed Deposit na	( history of
	Mithdraw () ?	exception exception
	throw new exception	Post Andrews

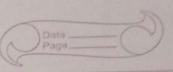
Not Enhertrable



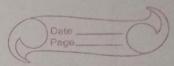
	Noc
	T Send a cent
	Immutable class - final of final
	Immutable nethods -> Final wed in C++
	No one can whods to make class
	No one can methods to make dass a overlos to make dass and method
	No one can methods to method and method and method for mutable
Diam's	Em muse
	History constraint will break it child
	class change the Emmutable class to
	mertuable class
there is	S Booking a growing   I I Town on the standard of the standard
(111)	Method Rule:
->	Precondition Rules: A precondition Re
	Something that must be true before
	the methods suns.
-	Child class should not make the
	precondition stronger.
	Example: User 11 (Pwd = 8)
	Create Pswal();
	A
	(1) Perts
	(Colean)
Client	Know Pt Adminuser 1) (Pwd = 6)
sho uld	make length=8 (Create Ps wdU);
	y chance ft ( )
pass 7	then the code of weaker
word	then the code the breakers child class making that not stronger
because	Alor 100
au	Depend on use case if appuration demands
	pswd 28 then child class must follow pswd 28
	12 mars



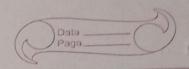
<b>→</b>	something that must be true after the
	method finishes running.
<b>→</b>	Child class also while
	child class should not make the postcondition
	Weaker
	The second secon
	Cay 11 cay should slow
	brake() { down
5 40	3
	A A
18 10 X	The same of the sa
Statules.	
The State of the S	Electric Carr 11 Speed 4
	3 Chargeng 1
Bau.	
36	Here child class is
Change	Here child class making it even stronger by
A LYGU A	increasing the charging.
1	
*	Key Takeaways for LSP
	Codower Lide by
3	Check Behaviour, Not Just code - Just because
	a child class doesn't also come
	a child class doesn't gave events and the
	code compile doesn't mean it follows 15%.
20	
i)	Use Rwes as a check let- LSP has three main
	Tules and you should remember that.
111	How to State ISP Wolations TI complete
	How to Stop LSP violations- If something breaks
	LSP, you might see-
THE WAY TO SEE THE PARTY OF THE	Unexpected evers or exceptions.
•	Wrong output values
6	Broken rules in class (like -ve balance)



*	I: Interface. Segre gation Principle.
-)	Many elsent specific are better than one general purpose interface.
-	Client should not be forced to implement
	methods they don't need.
	(xabstract>)  Here there is one has ( Shape
	Shape Here there is one has areacs; Entertare and but greatargle
	Shape  areacs; Enterfare and but  areacs; Enterfare and rectargle  volumes; two mathods rectargle  square and rowe  square nave
	volume(); two methods rectard volume  29 volume  A do to the feet feet  A do to the feet feet feet  A do to the feet feet feet  A do to the feet feet feet feet  A do to the feet feet feet feet feet  A do to the feet feet feet feet feet feet feet
	So it have
	mder
	Square Rectange Cube needs areac) areac) areac) areac)
	volumes) volumes) volumes so we
	Can make
	«abstract» (cabstract» two interface
	(2) Shape (3d shape)
	areal) areal)
	volume()
	7
	Square Rectance Cube
	area C) area C)
	(volume ())
	and wastands both have to
	Now Here square and rectangle both have to
	call only area and cube can call methods
	from 3d shape



*	D. Donaldo
	Dependency Invention Panciple
	tigh-level modules should not depend an
	dow-level modules. Both should depend on
	abstractions (Interfaces).
	anagaas).
	Heat level paradula
	High-level module low-level module
	Main tools or
	bustness togic databases, file readers,
	APJs.
	Appleate
	SQLDB sd; Application
	Mongo DB md; Application
	IS THE YOUR
12 12 11 11	eTosques saver + compted when
	Sd + save (); Hongo Hongo and in
3	
Sa	ve To Hongo DBS SQLDB
	md -> sove (): Sove ()
25	md - save(); (Save()) SQL to switch
	Casandra DB from Mongo
	then we must have to
	then we must have to Change App Coole
	Pensistance  Pensi
	Application (xabstracts) alang personal extentace
	Persistance Persistance > By many
	P; class any
	Persistance Persistance of Class as East any class any class any class any the
	Sque () Save () Save () Save ()
	Apparont
	SQLDB   Mongo DB   Casandra DB WITHOUSE
	save () save () save()
	Save () Save () (asandra DB Changing save () app code



Real-world Analogy: (EO Chigh-level)

doesn't directly talk to every doveloper.

Thetead, the CEO gives instruction to the

Manager (interface) and managers handles

the team and tells the developers worker.

(low-level) what to do.

object is very complicated but human work differently in different. Situations.

\* Final- thought & Trade - offs

SOLID principles are good to follow, but they are guidelines, not strict rules.

Sometimes your project may need to break a rule to improve performance and meet requirements.