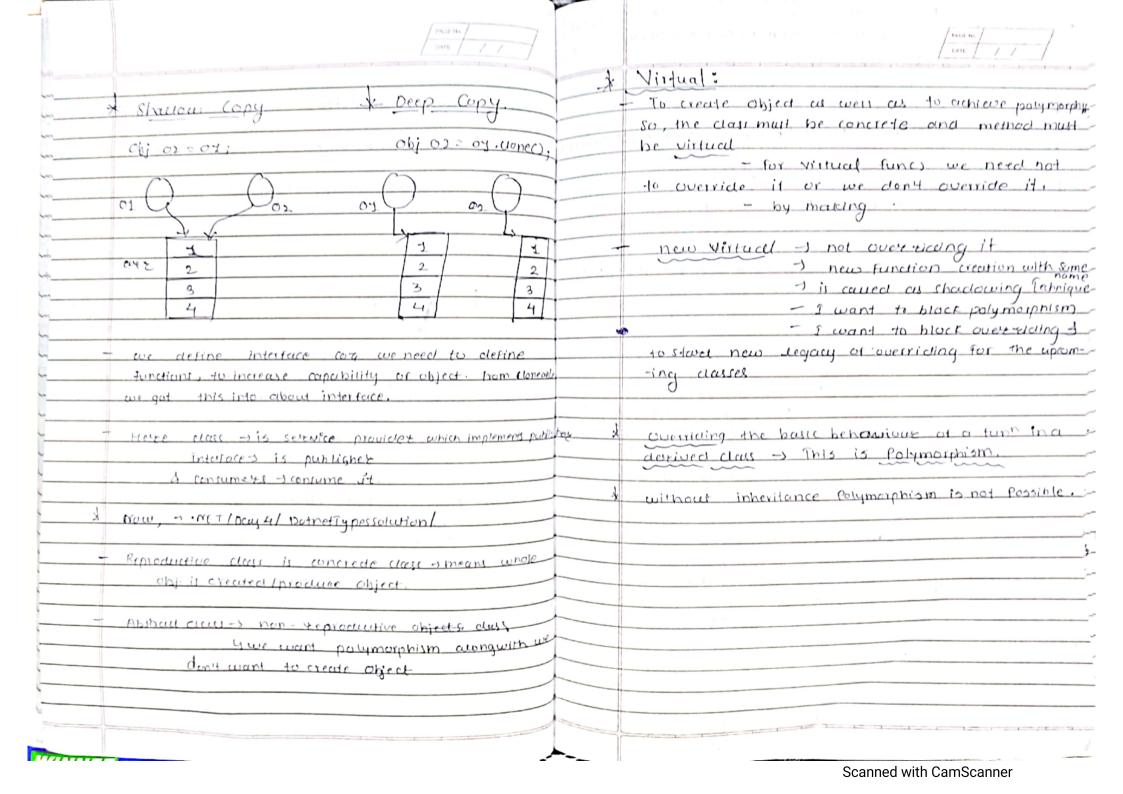
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A	
*	Publisher - Subscriber Architecture
	- Wed by technology named "Kafka".
Intervie	Tell me How Kafka works:
26.	- Ex: - Postman, netflix
	- explicin with delegates
	event auciven application
,k	There messaging curchitecture?
-}	There we 23 Design Patterns: 27 Adaptor Pattern 3 Singleton pattern -) only 1 obj. is created
-	To develop software part we me design parteins:
-	Rules of Design Pattern. [for singleton Pattern]:
	declared as static 27 obj. is always created using
	Static method 3) if obj. is null create new obj.
	if not null teturn reference of enisting objection
Note:-	MVC is everywhere: - Spring MVC - ASP-NET MVC
	- Django

& Grarbage Collector and i Disposable Interfer mithub -> ret -> Day 4 -> Dotnet Types Colution garbage collector works on mark and sweep algorithms. Quoter in 2 iterations but before sweeping me objects it will call Certain collective dota member of one does in on finalize () in java del Nuctor in CF and then tile and certain members in another file howing some class, That's why we up sweeps the object this concept is called beterministic but we don't know when it will call cox when partial classes. GC is gonna active we don't know. multiple cal files - multiple partial classes Role of Cac is to keep heap dean from unwanted. 4 (ac. Suppress Finalize() = objects. Charbuge Collectore Static It always keeps track on non-reference obj an iteration it will mark the objects. + Gra. Wait for pendind finaancin and iteration it will sweep the object but - we can do efficient memory -lizer() before sweeping it becomes active and could the management by using these finalize () by delkudor. This concept is colled as Gr. collect() INDETERMINISTIC FINALIZATION I disposable interface. In Taura there is no destructory but we have Resource sharing problem will occur if we write out code of disclose in finalize (); to averywich the finalize () method but why & So, for that in our code write Iditionable -> finalize() -> declared in object class. Interface and override pispole (). -> Grandage collectors alway souls before so, wheel happens due to this is that Objects is getting removed from the hear we don't have to wait for G.C. to collect the obje } but we explicitly glue it to disposect. Grantage collector - Tworks on Mark & sweep studient So, dispose () will call energy offer - is a kind of darmon thread the array of barackets are dosed and don't wait for Automotic memory management responsible - it find an the objects in the Cac. to collect it. This concept is autrol as Deterministic heap whole reference are just or opinion orphan Objects it marks that object this conception Finalization - Princery Threach will can the dispose al (making object). Then it goes back and function and collect the object. comes again and sweeps the object. Scanned with CamScanner

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áı.	pills heth Grc. suppress Finalize and Grc. waiter Penaing Finalizer ?	*	Granhage Collection is a Singleton class. -only one object is there in the whole program
Ø\$.		*	
k. k.	Shork Detreferenced Shork Supplies Finalizer) Gac. collect U Gac. collect U Gac. wait for percurationalizer)) - Automatic Memory Mymt. - Morr & Sweep Dispose() -) wed Primarry Throad for deaning the objects. Destructor() -) well Convertage Collectors for deaning (the objects) Destructor() -) well Convertage Collectors for deaning Cleaning I sweeping the objects. Dispose() -) to dispose share of telowtee conty for other to use.		Teloneable Interface: - override clone function/ Method. If a wan't to achieve or mare your abj. capable to deep capy you have to implement an interface named I coneanle. To create replica of object - object 0; = Ot - Here refaces Copy. But, to copy object: - object 0; = Ot. clone C) - Here object is copied and created new object this is caused at Deep. Copy. Copy.
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motel -> Property -> has getter, setters To anways hade data member inarolanaly The individual of the control	milel	* Structure
incliner: encapsulates collection inside it	mitel	* Structure -> value type -> kept on stack * Bydefault every class / structure many
Collection Francoork:		encept C++
· NET / Day 4 / Dotned Types solution / Cs Key worth	A PP	-ent indexes with in a days
-> Are acced smart Array		we can write only
In Day 6 -> cond -> mrdir cesolution		multiple properties are written in a class.
-) col cossolution -) dotnet new console -0 corrective of pp		Indexer hides collection inside property hides
-) datnet sun add		A Transfer of the Control of the Con
- CSfeatured App	hofe; -	if an right side of "=" Assig. operator gettern
C) Broke of		ex:- "KERE COST.
y programics		string book little = shelf[3];
S wing dibrately		N
Books shelf = new Books ()		2) on deft side of "=" Assignment operator
shelf · (all default methods from		setters are called:
obj. c(a15)		en: - Shelf [3] = "Sepicin";
(350 lution -) doinet run project (structurapp)(sto		In CH we can have protected at an acress specifie
twee app. ccping		Protocted helps to achieve datamembers to only child clay
The arrest the private dute member in our case		-class, abstract east, interface, enum,
ise title array now case.		Struct.
(1) by using getters;		to give meanifigher values we can always we
Hereing - GretTitle ()		enum - which a is a value type CTS variable
like an array for that in books cay,		
. 14 17 7 1		
public sking this lind Index 1)		
syntax 3 Set & return title Cinden]: 2		

PAGE NX.	FACE No.
	Reflection: // In Town use uses Gret classes
+ mulable type:-	* Glet Type () = 1) (both are inherite
-> we can't print unassignable variable	we can introspect (3the object class.
in colling, integral;	the object.
Console will count; // torror	y by using creterence of object we
	can do introspect.
-> int & count = null; // rullable type	y whenever is want to read the
[OR] L) something is not pointing	metadata of the object u will go for the lection
rullable ant > amount = null; to	type and to achieve it wan go ake,
- Int marks = 0; // this is not null, this is integer	obj. Gaet Type ();
something is pointing type.	# Ressection, Exialization (Filed 110), Musting are the pissass of every
To maintain integrity of the variable we have	-technology's word structure. This is real programming.
1 1 - C	public override void brown () }
- Always mare a variable hull and then assign	Type 1 = this (art Type ();
11	console.wl L" Type = " + + rame);
	console . W. ("(" + this . start point + "), ("+-
To curaic memory problems for your variable	endpoint wiath (olore);
it is better to initialize your variable with null	g
not pointing to anything)	Grithub -> MET/Day 3 / Graphics Solution Processing
	# Explicit Interface Inheritance:
tu: - of वलू -> बांधक रक्क	THE CONTRACTOR OF THE CONTRACT
	-> inside lorder Details (interface): 2 funcy
	- Jewhomer Detuils ("):- 3 fun ()
	In books of above showdetowis () is common.
	I'm bookin at a second

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* CRM-> customer Relationship Management	The same of the sa
in E-commerc	The state of the s
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Explicit Interface Inheritance	
e. crimine	Here we am teturn multiple values as
-) Vald 2001	we want.
-) Void Icustomer Detroils void show Detroils () 5	
Cansole-writeline();	To reduce a significant
	To reduce aprifting we have to use Out?
- Void forder petails. Show Details C) S	Keyword.
Console writerings	
2,	Params Keyword & having a single he haviour
	for multiple caus.
& so read something from a console:	public static void showtrames (params
-) consider nom a console:	String (7 names) 5
-) console. Readline();	0
V Processing	foreach (string name in names) ?
* row, (steatures App -> utility Manager . 65	(console coviteline (name)
[Ref Keyword) -> namespace Utility	4
William of house of (a)	
for a warrichle, so here we recurring reference	-in program · CS
of a varenthle so in our surp func wer	Utility Manager. Showmames (" Ravi");
only swapping tererence but not values.	utility manager show rames (" A", "B", "k"
Chairs but we haven't moved objects	every deute must be of type string for above exi-but
Chairs but use moused/swapped people/tererent	for below ent it is type object.
1.6.	we can't done overloading hove, but due to
Que Keyward: Cno need to write multiple funt for radius as well float calculate (in radius)	type of object we are changing only signatur
public value colculate (in raching)	-res:
	utility Manager . Shacoromes (34, true, 56.5f, "A")
float area = (3.14) * radius * radius	Twe and do we this also.
flocit ciramoference = 2 2 C3.14)	, we want to be a second of the second of th
Static tactius;	
A	
and an arminer intraction, but float areas	
out flout circumference) 3	
ayea = (3.14 F) x r x r;	
c/rcumference = 2 * (3.14P) * + !	

Sealed in MET is equivalent to final in Java DATE //	* CVQ chrary > for image processing wed in cff to make face recognition app.
+ Extension Method:	multiplication and bussion dass so,
dissin behavious. - intension can be done. without inneritance.	D public static intravision (this mathengine e, int opx, int opx) &
row, Mathengine, C5	return op=/op2;
public sealed class Mathematics;	Depublic static int multipolication (this mathergine e, intopt, intop2) {
public int Addition (int ops, int ops) & return ops + ops;	return opy + opz;
public int subtraction (int opt, intep) }	
in, utility Manager .cs	Two-D Arrays - wed in Graphics
Static int division(); Static int multiplication();	-given by int C.7 mirx = New int
acu, in pogram .c.s	# Jagged Array! - Array of Array
int result = engine Addition (56, 56);	Int () () mtru = newint (2)
int tesut3 = Sub.	HultiDimensional Arrays Gagged Arrays J
resulty = Div. now due to matnengine down	- int C , J mtin = new Int (2,37
and also we can't inherit it cog class mathengial	#
us sealed so, for that we have to adapth the	
The second secon	Scanned with CamScanner