#	Copy Constructor
CaDE ->	Class Shedent {
	int ose;
	Public: nome is Public
	Char * none;
	Student (intoge, charge name) {
	this -> ge = ge
	// Shallow Coly
	11 this -> home = home;
	11 Deef Coly we are using deef?
	this have = new char[Strlon(none)+1]; Copy as Con be seen
t-1 -	Stroly (this -> none, home);
70 B)	}
	Void dis Play () [
	2.
	3;
	int main() {
	cher nome [] = "bhay";
	Student &1 (20, name);
	81. dis Play;
	Student s2CSI):
	32.none[0] = 'x';
,	82, dis Play CD;
. 1	SI. display ();
	3 outlot: > bhavy 20 changed
	xhavy 20
	xhavy 20 = S1. display();
	M

=>	Lets See why Such hoppen ->			
	> 200 (Address)			
	nome bhavy 10			
	Ase = 20 800	:		
	Nome = 800 bha vy 10			
	S, Cdeel Coly)			
\rightarrow	how, we are making So with helpor Coly Costructo	rj		
	& what it does is Copy the values as it is from			
	or it make the Shallow Copy			
	.0			
	Ase = 20 & Now, both Sy &S	e Painting		
А	Nome=800 towards Some Array			
*	Se . Se .	4 3 4		
	& Hence, changing only in Sa will be Easily got	Reviertal to our Sa		
81/2->	we need to Customize our Copy Constructor s	to as it hakes		
	deel Coly			
	Lets modify Cofy Costructor			
>	In our class only			
		•		
	Student (Student S) { this is In bu	<i>i</i> #		
	this -> se = S. se; Coly Cash			
	this - nome = S. nome; & creets Shad			
	3	as cy		
	stor Deel Coly -	1		
	Student (Student S) {	deep Coly		
	this - age = Siage;	Constructor		
	this -> nome = new [strlen (s. nome) +1];	Costrucia		
	Strely (this -> nome, S. nome);			

The time -
700
home bhavy 10
age = 20 800 age = 20
home=800 home=900
S, S ₂
Student Sa(S1); 300
this blocks to
NWS .
=) There is Still one issue, Lets See into it
Student (Student S) Student Se(Sa)
ise, Student S= Main Sy;
The second secon
-> Main mai Jo SI bonago USKO Pass Kara Rahe
what we oltimately telling to dois
Coly Values of Sy from Main to Student S
je, we one calling again coly Gretroctor
Student S3 = S1: -> Coly Con call Hota hi
Student S= S1: -> Coly Con call Hota hi Student S= Main-S1 -> in n n
-> & we know as we now created our own Cofy Constructor
default à Vonished.

	So, the Problem exis-	t is			
	Student (Student S)				
	Student S. calls Coly Castroctor				
	then Student itself	& again Call "Student S"			
>	i.e. It is getting into an infinite look Calling Coly Castructorsory				
Solx	what we want is on	calling Student S, we don't Call			
	Copy Castroctor dain				
	i.e. Pass object as Pa	88 by Reference is a Passible Sol _			
Rech &	$int i = 5; \longrightarrow 1$	j int lij= ij			
Passby	,	a no just created as a			
RECEI	int j = i;> [5) new block 5			
		j land older			
		i.e. [5]			
	-	i, j			
In Cold	nahat hallen is				
of Junction	nwhat hypery	main			
	int fun Cint i) {	int $i=5$			
Poss					
1 64	$\int int j = Main.Lj$	fun Ci)			
Volue	15 5				
	int fun (int & i) f				
	intaj = Main.i) (No new block, j will				
	mo mo	Point to i in			
	3	main)			

	So, the Simple Solution is -	
	Student (Student &S)	1 1 1 1 1 1 1
		.A
-	but now, we need to avoid changes	
1	i.e. inti= 5 ;	
2012	is a general intaining is	
	- i++; ->6	
	j++j> 7	
	but we want no chases for j i.e.	i++ -X >
=	for that we need to do -	3 1250000
	int Const & j = i; Citis	Constant now)
-	80, 110: 3 (10:15)	
17	Student (Student Const &S)	
	ie, now we can Read values of "S"	but connot make any
ille	gal->changes in it.	
	out Put: - 6 havy 20	· · · · · · · · · · · · · · · · · · ·
	Xhavy 20	
	shary 20	· · · · · · · · · · · · · · · · · · ·
		, and w