	The Total Control of the Control of
	# Storage Classes in C
	Storage class in C helps us determine
	the default value memory location coops
	the default value, memory location, scope of variable and the lifetime of the variable.
	ourable and the openine of the variable.
	Storage class is written before I louting
	Storage class is written before declaration.
	le, datatype variablename;
	Scale of washingle of 1 store 14.
	i) Bluck scope ii) function scope iii) hyram scope.
	1) Dioca supe (1) tarrottor scope (11) projecting supe.
	&: int a = 50 (iii) - Program scope.
	int main ()
il s	1 0
	int 0=10; (iv) = Function 30 Sint 0=10; (iv) = block supe 2D
	of int a = 20: (i) < block stupe. 20
	f int $a = 20$: (i) \leftarrow block supe. 20 print $f("+d", a)$; g 50
	of prontf (" 1.d", a++);}
	printf ("T.d", a);
	return 0; If int a = 10; is omitted;
	2
	Output:
	of int a = 30. (1) < Function 50
	void fun() de 20 d'int a = 30; () < Function 50 print f ("Y.d", a); 9 51

based on default value, Memory lucation, surpe of variable and lifetime of variable, storage dasses in a are of four types:

1) Automatic!

Syntax: auto dutatype variablename;

> Default value = garbage value

- Suspe: local supe i.e, either block or function.

Lifetime: within the block or function depending where it has been dedared.

- Location: RAM in stack fragment

(ii) Register:

Syntax = register datatype variablename;

> Default value = garbage value

- Scope: local scope in either block or function

- Lifetime: within the block or function where it is dedared.

-> Location: CPV register.

We know, program is stored in hardelisk, loaded into RAM and processing is done with CPV So, while program execution, there's switching between

Hence, for increasing efficiency, we store in registes

to avoid switching

We can't use pointer with register and we can't get the address of register variables with pointer.

	(ii) Static:
	Syntax: static datatype variablename;
	+ Default value = 0 or null
	+ Location = RAM
	+ Scope = within the block.
	- lifetime = till the end of function
	Eg: void display ();
	void main () Output:
	10
	display(); 20
	display ();
	J
	void display ()
	2 14 11 11
	static int α ; $\alpha + = 10$
	printf (" n x = y.d.", n);
	4
-	Here,
	on 1st call, when declared value is 0, 10 is added to
	o and printed. ie, 10.
_	On sewnd call, since lifetime is throughout the
	program, the value when declared is 10, 10 is
	added and printed output = 20.
	Here, if we print a in main, it will give error as a has been declared outside. The block
1	of heading with been declared putside. The block
	of function display.

1	
	We reduce the use of static as it holds memory
	throughout the program.
	(iv) External
	Syntax: extern datatype variablename;
	> Default value = 0
	> Location = RAM
	- Sto Scope = Global
	+ Lifetime = till the end of program.
	0 , ,
	We reduce the use of extern as it holds
	memory throughout the program.
	All globul and only global variables come under extern
	category.
	We can we extern in function too.
	Declaration required before unge.
	Declaration required before usuge. The helps us links to file in some proofs ject.
	To include another file, #include flename"
	Eg: 1-c 2-c
-	#include (stdio-h) #include Cotatio-h)
-	not 1=10; void display ()
- Control	exten void display (); of extern intx;
	void main () Att;
-	old main () f display; 3 printf ("Hello from 2.c");
	pro+f ("X=; d, x);