*	Allocation
	. To coente a value, the value needs to be stored.
	Ht is stoold incide memory!
YE .	and the second secretary of the second secretary and
	. If we want to put some value (let it a), the
	appropriate tack is to got the uses its value and littore
7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	"H'incide the memory.
	The state of the state of the state of
	. Too a value, we need to specify its size i.e., how much
	Cotoroge acquirement the value has.
	The Gorage specification is a plobal Glandard
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	1. 11 11 11 11 11 11 11 11 11 11 11 11 1
	. The language dosorit accepts a value without mention
	of its allocation i.e., Declaration
5 77	The state of the s
	For aloging those values viz., a,b,c,
	we need to allocate storage converspording to the
	· Values. Add the one of the of the same
	1 byte a,b,c
	The Otalement will allocate Glorage in memory
	coordinate to the three values vie, a, b, o.
	1 byte = 8 bits
	for overcoming limitation on storage range,
v	these are different storage opecifications available
	8 bite - 1 bute (cur int)
	8 bits - 1 byte (cur int) 16 bits - 2 byte (short int)

- 4 byte (long int)
- 8 byte (long long int) bits numbers available for storage. Imaginary X Real Fractions Integues double (64 bit (float) (got) tong double (128 bit In C. the 'Int' has four types (int-8) i) chav ("int_16) 123 Chort (9nt-31) 4> long long (9nt-6+) Note: Char is an int I His not a doctatype, its modifiee Normally, the char, short, long, long long int are a great (signed range of numbers) For range to be unifered, we need to mention the int to be uninched.

Ex: uning ned short int (16 bits/24/2) char int8_t intl6-t signed Reparagentation Short int 32-t Mt64-t

Assignments

· The assignment separant the way in which who assigned to a variable is stored in memory.

char 1 byte

short, 2 byte

long 4 byte

long long 1 8 bytes

· Suppose for a short value.

Ex: Chort a = 25;

Birary: $(25)_{10} = (00011001)_{2}$

for short _ 2 butes (2x8 = 16 bits

: short a = (00000000 00011001

is given by

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7.4	chost a = 155110111	4	Gust a = 25;
No.	.1)	7
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As a	S Comment.		, , ,
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e e	Octal Numbes Represents	ution_	comes first in memory
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	Octav Numbes Representa		
	Octal Number Representations: Step 1: Take the given	numbes	on binary format.
	Octal Number Representa : Step 1: Take the given Step 2: Divide It into	numbes	
	Octal Number Representa : Step 1: Take the given Step 2: Divide It into Step 8: Get the oquin	numbes stoup of	on binary format. 3 bits from RHS carracponding
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#	Octal Number Representa : Step 1: Take the given Step 2: Divide it into Step 8: Get the again to each go Step 4: Represent the the sterrt in	numbes proup d latent de oup d = number assignm	on binary format. 3 bits from RHS commal value arrangemation bits. by putting '0' off entired to the contract of the cont

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