Fortion 95+ -) Contal	close >31 chan homes
C-99 -> 63-Charace C++ -> all Characters	ter names, anyligher near
C++ > weeknacters	others truncated Internally  Court you can  write more grandoble  programs)
	(But up com
D . d	Core en grandoble
Pup >\$	Mofram)
Reserved words	
$\bigcirc \alpha_n + 1$	
-) whi be used as na	m90
too many =) it become	mes difficult for a proparmer
	mes difficult for a programmer
Keyword, Special or Real Apple; type sp Real = 3-4 > vorials	ry incertain contexts
tylest	Aition of the boardill
Real Alde;	90110 6 78 11 40 3 10
Roal = 3-4 - vouid	le J Marcian Elymonog
Variables	Innovate achieve food
variables	
A variable in a program is an abstraction cell or collection of cells.	of a computer memory
Programmers often think of variables as n cells.	ames given to memory
In machine language memory locations have	binary addresses.
In Assembly language we can give names (m	The second secon
A variable is characterized by following attrib	utes (is a six-tuple):
□ Name □ Address (Lvalue)	
<ul><li>□ Address (I-value)</li><li>□ Content (r-value)</li></ul>	
☐ Type	
□ Lifetime	
□ Scope	

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	Names are associated with any variable
	V
	Address of a variable is the machine memory adds. With which it is associated
	with which it is associated
	address of von 18 also known as to 1-volve
	□ Address of variable is also known as its I – value,
	because the address is what is required when the name
	of variable appears on the LHS of assignment.
	Ex: sum= total;
	☐ It is possible t have multiple variables have same address. In such case the variables are called as
	aliases.
	☐ It can create problems. It sometimes reduces the
	readability. Formal & actual
	☐ Ex: Unions, Pointers, parameters, object references etc.
	June 11 mot
	stores enough space men, there west for largest datatype in it, some (oc,
	for largest datatype in it Some (oc,
	an example of Aliasig. actually
	Stoud in
	CITS internal Neuroldes diff. Loc.
	Stoud in Same space)
	THE ADDR
$\mathbf{X}$	LVALUE = ADV John Stone
, X,	RVALUE = VALUE H) in member local
/ , \	eg. son veue
	address is stole

## The Concept of Binding (5.4) It is an association between an attribute and an entity Ex: variable and type/value Operation and symbol ☐ The time at which binding takes place is called as binding time. The binding and the binding time are the prominent features in the semantics of a programming language. danjuege design time \* > multiplication (not program design) day implementation time int -> range (-2" (02-1) birding of vorsto dotatypes Compile time binding Load time birdy Variable birdy to member Link time binding Call library subprogram code happens at link time)

or values assigned to variobles

etc.

Run time

Static binding
→ Specified by a dectaration statement
=> Slides/book
Depranic birdip
bound to a type when it is assigned a
bound to a type when it is assigned a Value in assignment statements
Carnot be inferered by name
Con couse a problem et times