	Page No.:
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	9 (Sorvious) ed de la company
	Structure
y Carl	
\$17.1	Arrays and Strings => similar data
CII-	(int, float, char)
Y Kany	Arrays and Strings => similar data (int, float, char) Structure can hold => dissimilar data
	the first of the first of a second or the second of the second or the se
	Syntax for creating structure
	Syntax for creating structure A C structure can be created as follows:
1	and decide with the control of the c
	struct employee & 1/ This declares a new
	int code; // user defined data-types
	float salary protounts to morror
	char name (to).
6	Semicolonis important.
	We can use this user defined data-type
	as follows:
	Struct employee e1: => creating a structure variable.
	=> creating a structure variable.
	stropy (e1 name , "Abhinay");
	e1, tode = 100;
	e1. salary = 71.22;
	So a structure in C is a collection of variables of different types underta single
	variables of different types under a single
	name:
	Quick Quiz: Write a program to store the details of 3 employee from user defined data. Use the structure declared above.
2017	actails of 3 employee from user defined
	data. Use the structure declared above.
	이 가게 하는 이 그를 살았다면 하는 것이 되었습니다. 하는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은

Why use structure? he can creat the data types in the employee structure separately but when the number of properties in a structure increases, it becomes difficult for use to create data variable without structures. In a not shell: (9) Structure keep the data angenized. (b) Structure make data mangement easy for the programmer. Array of Structure Just like an operay of integers, an array of structures. Stryct employee facebook[100]; 11 an array of structure. We can access the data using:
farebook[0].code = 100; facebook[1]. code = 101; Initializing structures

Structures can also be initialized as follows: struct employee abhinay = { 100, 71.22, "Abhinay"}

	DATE:
	struct employee tuinkle & notion
1	Stryct employee twinkle = { odi; odio
, pa	Endingle some of woher as allower
1 7 5	Stryctures in memory
	Structures are stored in contiguous memory
	locations for the structure of of tupe struct
-	locations for the structure of type struct employee, memory layout looks like this:
	the company of the control of the co
-	(00:10t00- 171.22- "Alohimay" = 100:221
1111	address + 788/0 788/4 788/8
	· Court date a solar warrance solar date
,	In an array of structure, these omologies
	instances are stored adjacent to each
	other.
	Disport profit side plating : since
	Cointer to Structures when and
	A pointer to structure can be created as
	follows: Incompand Internal
343	of horotoped tobant and and idal
-	Structesemployee * ptr; som on
	etr = 28e1/100000000 shows 12 bolions
	bi
	Now we can print structure elements
1	using:
	printf ("/d", * (ptr).code);
	printi Cora, * (ptr). coole),
3	
	The state of the s

Arrow operators

Instead of writing *(ptr).code, we can use arrow operator to access structure properties as follows: *(ptr) code or ptr->code Here -> is known as the greatow operator. Passing structure to a function
A structure can be passed to a function
just like any othe data type. void show (struct employee e); //function prototy Quick Quiz: Complete this show function to display the content of employee, Typedef Keyword. the can use the typedet keyword to create an alias name for data types in C. typedet is more commonly used with structures. stryct complex { float real; > Struct complex C, C; float img; for defining complex typedel struct complex { float real; float ime; => ComplexNo C, C2;
3 complexNo; for defining complex nymbers

Chapter 9
Practice Set Coyel Creat a two dimensional vector wing structures in C. Due. 2 Write a function sumVector which returns
the sum of two vectors passed to it. The
vectors must be two-dimensional. Que 3. twenty integers are to be Stored in memory what will you prefer - Array or Structure? Que. 4. Write a program to illustrate the use of Due 5. Write a program with a structure representing 9 complex numbers. Due 6. Creat an array of 5 complex numbers creat in problem 5 and display then with the help of a display function. The value must be taken as an input from the user, Que 7. Write problem 5 Structure using typedet Keyword. Que 8 Creat a structure representing a bank account of a constance, What fields did you use and why?

Que 9. Write a structure capable of storing dates. participal principals out a 1000 to Oue to. Solve problem 9 for time using type det Keyword. Construction of the second sec and the kors secondary