	LLO1
-	
	Chapter 9 - Structures
_	laser with me del ships till raid and "Was
	Arrays and strings => Similar data (int, floot, cher)
	a constant substitute of all confessions to
1	Structures can hold => dissimilar data
سنند	The state of the s
	Syntax for creating Structures A C Structure can be created as follows:
_	1) C Gleve tire can be seented as follows:
	A C STUDIO AND CONTROL WAS MODIFIED AND ADDRESS OF THE PROPERTY OF THE PROPERT
_	struct employee &
	int code; => This declares a new
	float Salary; user defined data - type!
	char name (10];
111	3; (20) No (21) 20 (10) (10) (10)
	> Semicolon is important
	We can use this user defined data type as follows:
	Struct employee e1; => creating a structure variable
	Stropy (e1. name, "Harry");
	e1. code = 100; Oal = 100] today
	e1. Salary = 71.22;
	200 7 50 100
	So a structure in C is a collection of variables of different types under a single name.
	of different types under a single name.
	be able to billotted at oak and whitested
	Quick Quiz: Write a program to store the details
	Of 3 employees from user defined data. Use
	of 3 employees from user defined data. Use the structure declared above.
	the deal of a stable motion total

employee number of t becomes thes without
number of
t become
dos willes
without .
Tour le
The second second
the
the
marc
of floats
n Create
of floats n Create
ay of
es VI
Aug 40.
in His
0 13
3.19
1 00
10
871011
"3;
3/10
ents Set to O

	Structures in memory Structures are stored in contiguous memory locations For the structure e1 of type struct employee, memory layout looks like this:
	Structures are stored in continuous memory locations
	for the structure e1 of tube struct employee memory
	layout looks like this:
	Yord Store (Start engloyers): or weeks to
	V V
	100 71.22 Harry"
_	Address > 78810 78814 78818
	In an array of structures, these employee unstances
	In an array of structures, these employee instances are stored adjacent to each other.
	The south the part of the same that the same that the same the same that
	Pointer to structure can be created as follows:
	H pointer to structure can be related as follows:
	Glenat amboves + blu.
	Skuct employee * ptr; ptr= & e1;
	PURS ECISION AND STREET
	Now we can print structure elements using:
	Explana trails label
	print [" % d" * (ptr). (ode);
	(on tools
	Arrow Operator
	Instead of writing * (ptr). Code we can use arrow
	Instead of writing * (ptr). Code, we can use arrow operator to access structure properties as follows
_	
_	* (ptx)·lode Ox ptx -> Code
_	
	Here -> is known as the arrow operator.
_	

	6523	ELG3_		
-	Passing Structure to a function	Sunctures in me		
-W	Passing Structure to a function A structure can be passed like any other data type			
	Void Show (Struct employee	e); => function prototype		
	Quick Quiz: Complete this 5 the Content of employee.	how function to display		
	Typedef keyword We can use the typedef an alicis name for c typedef is more commonly u	keyword to create lata types in C. sed with structures.		
	Struct complex & float real; => Stru float ing; 3;	cet complex C1; C2; defining complex numbers		
	typedef Struct Complex & float real; float iny; => C 3 Complex No;	omblex No C1, C2;		
	11 10 to 1 to day to an use and the control of the			
	10. Per pie - John 10. Marier.	m). (vtd) x		

	Chapter 9 - Practice Set
	The Mark restaurable of the first of the contract of the contr
1	Create a two dimensional Vector using structures
-11	same and the for the sums of
	hearing to
1	Write a function sum/ector which returns the sum of two vectors passed to it. The vectors must be two-dimensional.
	the sum of two vectors bassed to it. The
	vectors must be two-dimensional.
	The state of the s
_3	twenty integers are to be stored in memory
	twenty integers are to be Stored in memory. What will you prefer - Array or Structure?
4	Wrik a program to illustrate the use of arrow operator -> in C.
	arrow operator -> in C.
_	Il'il a languarité a digration a barretie
5	Write a program with a structure representing a complex number.
	a compiex numer.
6	Create an array of 5 complex numbers created
1	in Problem 5 and display then with the help
	of a display function. The values must be
	taken as an input from the user.
7	Write problem 5's Structure using typedef
-	Reyword.
8	Create a structure representing a bank account of a customer. What fields did you use and
4	
+	why?

9 / 10 / 10 / 10 / 10 / 10 / 10 / 10 / 1	Write Write	12 A	. V Q	WALL NO	THE P	L. L.V.	foring ose dat
10	Golve keyword	proble	cm 9		<u>+ime</u>	using	typedi
Tine	11 4	hind	e Loren diseansia	37 0		Sum ! Vvust	Arest Nation
î .	nethan M.		be Sho	1		instri Piliu	Whole !
	to wit	(A)	tartaulli		ogtan the	19 D.	HINNEL WAKEN
G. Amer	28 KA	i milk	Dy N	Tilel	hvocean mlick	Di logo x do	Tild I
Balana dia	100			l.h.	Ann,	Jeff D	DOX I
	1,6	Justin	Mulin	46 3	· 3 Ma	head.	
hap w	Arcia D	1 1 1 1 1 1 1	10/20140 hlift	TANK	daude sens	A L	1013/