	Chapter 10 - Filer I/Ohor municio si
	The Random Access Memory is Volatile and its content is lost once the program terminates.  In order to persist the data forever we use files.
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0)	Content us jost once the program terminates.
	In order to persist the arta forever we
10	USE TITS.
	A C bronger (an talk to the Cite by realing
	A file is data stored in a storage device.  A C program can talk to the file by reading content from it and writing content to it.
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John Maria	C Program FILE Write  Program File Write  Program File File File File File File File File
14	3 A C Program of And FILE
	A Vend
	TO TOURNEL
(1)	and the state of t
1007	FILE pointer
•	Fre"FILE" is a structure which needs to be created
	for opening the file.  A file pointer is a pointer to this structure of the file.
	A file pointer is a pointer to this structure of
	The fic.  FILE pointer is needed for
	Communication between the
	file and the program.
	Kenneys a tile
DE 1.23	A FILE pointer can be created as follows:
	FILE *ptr;
	ptr = fopen ("filename ext" "mode");
	more than
	<u> </u>

Ed 2: 10 madded)
File opening modes in C Office the programmers to select a mode
Coffes the programmers to seem we more
for opening a file.
Following modes are primarily used in C. File I/o
"r" -> open for reading If the file does not
"r" -> open for reading If the file does not exist, fopen returns
"rb" -> Oben for reading NULL
"rb" -> Open for reading NULL in binary to marrow
The Durang was discoursed to the same of t
"W" -> open for writing If the file exists the
- Confert will be adamented
"wh" -> Open for writing in binary
in binary
a marine E
"a" - open for append -> If the file does not
exist will be
bities on a shor while renter created 115"
Las opening the file.
Typesmore filest of whited in ai natrice of
There ware two types of tites:
17 Text files (txt, oc)
27 Binary files (. Spg, dat)
Reading a Cita
Reading a file
A file can be opened for reading as follows:
FILE * btr;
ptr = fopen ("Harry txt", "r");
int num;

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	L		J	J	

	// 11
	Let us assume that Harry txt contains van integer we can read that integer using:
1	We can read that integer using
	fscanf (ptr, "% d", & num); => fscanf is file
	Counterpart of
	A Marie Granting
	This will read an integer from file in
	nun variable.
1	Quick Quiz: Modify the program alrows to shock
	Quick awig: Modify the program above to check whether the file exists or not before opening
	when file of how a like to hand
	CLOSING the file
	It is very important to close the file after read
1 111	or write. This is acheived using fclose as
hal.	follows: not six od hard now man sid
	12 40 has to lot exological
	fclose (ptr);
	Tolor Chr. )
100	This will tell the compiler that we are done working -
	This will tell the compiler that we are done working with this file and the associated resources could
	with this file and the associated resources could -
	The form
	Writing to a file
	We can write to a tile un a very similar manner -
	We can write to a file in a very similar manner— like we read the file
	FILE Hotr;
	fbtr = fopen ("Havry txt", "w");
	The same of the sa

	Eddi
1, st.	int num = 4325  fprintf (fptr, "ol.d", num):  fclose (fptr):
+	fgetc () and fputc are used to relad and write a character from/to a file
1	fgetc (ptr) ; => used to read a character  fputc ('c', ptr); => used to write character  'c' to the file
\(\)	fgetc returns EOF when all the characters from a file have been read so we can write a check like below to detect end of file
isho;	while (1) {  ch = fgetc(ptr); > When all the content  if (ch = EOF) {  break; break the loop!
\$2.(0)	Mode  1 day  1 d