	Chapter 4 - Loop Control Instruction
	City (a) Instruction
	Why Loops
	Cometimes we want our broadant to concute leve set
	Sometimes we want our programs to execute few set of instructions over and over again for ex: printing 1 to 100, first 100 even numbers etc.
	printing 1 to 100 livel 100 even municipal etc.
	printing 1 10100, post 100 over hundred circ
	Hence Loobs make it early for a programmer to
1.	tell computer that a given set of instructions
	Hence Loops make it easy for a programmer to tell computer that a given set of instructions must be executed repeatedly.
	The state of the s
Min	Types of Loops and a sind and hind
hal.	Primarily, there are three types of loops in C Language:
	language :
100 7	While book of ton the sales and the
27	do - While Joop
37	for loop
	repeared and deckement roomature
	We will look into these one by one
	t you wood at 21 to to to the total
	While loop rate handstand in the
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	While (condition is true) }
	The block half and the
	1/ Code The block keeps executing
	11 code = or long as the condition
	Update; strul.
	I have the title that I have the control of
	Le chargers of a cost from I through the contents of
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	An example inter latter tool - A settle day
	int i = 0
a be di	1.1hila (i 10) \$
- 1	While (i < 10) } print ("The value of i is 7.d", i); i++;
	,
11	Note: If the condition never becomes false, the while loop keeps getting executed. Such a loop is known as an infinite loop.
- court is	while loop keeps getting executed. Such a loop
	auck aug: Write a program to print natural numbers from 10 to 20 When initial loop Counteries is initialized to 0.
	numbers from 10 to 20 when initial loss country
	is initialized to 0.
	The loop counter need not be int, it can be float
	as well.
	Increment and decrement operators
-	I lake will look with these one by one
	i++ → i is increased by 1 i → i is decreased by 1
	i i is decreased by I good stirtly
	1.11(11 : 1.11 : 1.
	print f ("i= 76d",i);
15 6 1	This first idecrements i and then prints it
	print f (" i = %, d", i);
	This first prints i and then decrements it

	ELG1
*	+ + + operator does not exist > Important + = is compound assignment operator Just like -=, +=, /= 2 % = => Also Important
*	t = 15 compound assign ment operator
	Just like -= , += , /= & %= => Also Important
	The state of the s
	do-While Loop.
	The syntax of do-While loop looks like this:
	0.0 2
	11 Code:
	11 Code; Update; 3 While (Condition)
AUL	3 While (Condition)
	Test - (herben) a madical to test
	ao-While loop works very similar to while loop.
	do-while loop works very similar to while loop. While - checks the condition & then executes the code
	do-while -> Executes the code & then checks the condition
	Marine destroy of the control of the property
	do-while loop = While loop which executes
	at least once
100	
7	Quick Quiz: Write a program to brint first n natural numbers using do-while bop
	natural numbers using do - while loop
	Input: 4
	Out put: 1
R	and more of 1202000 Dy Now gine Drub
	31 months possess Arrhount brutan
	4
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		A Case of Decrementing for loop
		for (i=5; i; i)
	_	for (i=5; i; i) printf ("%d\n", i);
	-	
	\dashv	This for loop will keep on running until i becomes
	\dashv	0.
	1	The loop runs in following 5kps:
	7	i is initialized to 5
	7	i is initialized to 5 The condition "i" (o or nono) is tested
	} >	The lade it executed a familia united sal
	1.	i is decremented
ķ	,	i is decremented Condition i is checked & code is executed if its not 0.
dil	2	& so on until i is non o
	0	O 10 herasan to beint in natural
		Quick Quiz: Write a program to print n natural numbers in reverse order.
	\dashv	numbers in source of and.
		The break Statement in C
		The horack statement is used to exit the loop
		irrespective of whether the Condition is frue as
		Calse.
_		Whenever a break is encountered inside the loop.
_		the control is sent outside the loop
_	4	Let us see this with
_	-	The state of the s
)	-	the help of an Example
	1	
1		

	EDG3
for (i=0; i 41000; i++) }	A lass of Dechanism in
print (" % d \n", i);	
$-\frac{1}{1}\left(1 = 5\right)$	utput \Rightarrow 0
break;	Love M Haird
3	2
country is I think thrown to had	Thu tool 403 Aids
	4 0
following 64 ps.	AL MANY des MI
	and not o to los (2)
The called although	12 to ruptophy to
The Continue statement in C	Makendihan willer
The Continue statement is	1.
move to the next itera	tion of the loop.
The control is taken to	List St. J. northpa) 1.8
1 11	the next iteration thus
Skipping everything below	"Confinue" inside the bop
E all y william to see	HIANA COMP ASIMO
1	amble all anothering
The state of the s	Linematota dound adl
int 8kih = 5 5 4 4 4	Ministry Aming MI
in malinter i to shoot all end	I will be sufficiently
	TO TALLEY
i While (i 4 10) &	Jaisel a samuellel
if (i) = skip)	AND AN LOW ON THE
Continue; Outbut	-) 5
else	All the bank to be
print ("0/0d", i);	X + VIV I A III A X
3 1 10	and not 0 9
	100

					a I managementations
	Notes:	Practice Set	Chappy 4-	:	Tigat.
7	Sometimes, the the behaviour	name of the	Ham.	ight not i	nawaw
1,	break states	ment completely	exits the	loop.	0/
3.	Continue State	ement Skips th	e particular	I KAATION	- 07
		,			
		*			
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