	(hobter A last Called Lelandine
	Chapter 4 - Loop Control Instruction
	Why Loops
	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.
	of instructions over and over again for ex:
	printing 1 to 100. first 100 even numbers etc.
	Hence Loops make it easy for a programmer to tell computer that a given set of instructions must be executed repeatedly.
1	tell computer that a given set of instructions
	must he executed subsertedly
	I'ms i we viermed reporting.
	Tuber of Joseph
	Types of Loops
	primority, mere will three types of pops in C
	Primarily, there are three types of loops in C Language:
7	Id While 1900 as at top take selected god and
27	do-While Joop
37	
	represent and devicement operation
in the	We will look into these one by one
	had becarded 21 to another the lead of
	While loop and benefits in the
10%	TYTIMU TOOP
	While (condition is true) 2
	Willy Committee is I was I
	1/ Code The block keeps executing
	The contract of the contract o
	as frule fraid
	3
	This you'd brooks I and then decreased it
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Quick Quiz: Write a program to print first n natural numbers using do-while loop

do-While Loop.

11 (de 3

11 Code;

3 while (Contition);

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•	The same of the sa	war to the
	for Loop The syntax of for loop looks like	this:
h .	The syntax of for loop looks like	JIWS.
la.		
	for (initialize; test; increment	
	7	
; ;	Code; don't don't listly of	Paralle 31
·	11 Code;	72-1
· · · · · · · · · · · · · · · · · · ·	1/ Code:	
<u> </u>	3	# 2 sta
-		
	Initialize -> Setting a loop Counter	ck to an Initial Valu
-	Test -> Checking a Condition	1
la.	Initialize \rightarrow Setting a loop Counter Test \rightarrow Checking a Condition Increment \rightarrow Updating the loop Cou	nter statement
	That the will the hart that the life has the life	AND THE STATE OF T
regit	An example:	x. 2 - Author of
	The transfer of the said in the	1 de la
-	for (i=0; i < 3; i++) {	
	prints("%d" (); =	Winter ob
	print (" \n");	
		0 1 0
14	Outputal: of the of the said of the	Just Duly
	Dankar - of the same	aury forutan
7.	2	H " want
10		
	Quick Quia , while a bi	tug trial
	Duick aug: Write a program natural numbers using for look	to print first
	natural numbers using for look	
·		

140	A Case of Decrementing for loop
	postario de la constanta de la
	for (i=5; i; i) printf ("%d\n", i);
	print ("% d \ n ", i);
	This for loop will keep on running until i becomes
E)	Thus for took with teeth of the winding with the
	The loop runs in following 9kps:
()	
17	i is initialized to 5
	The condition "i" To as none) is tested to
27	i is initialized to 5 The condition "i" (o or nono) is tested The code is executed
3 >	The wal 15 callings
4,	(15 decremented
5,	Condition i is checked 2 code is executed if its not 0.
67	2 So on until it is non o
	Skipping executions below Electronic in side the
	Quick Quis Write a program to brint n natural
	with any the section product
	Quick Quy: Write a program to print n natural numbers in reverse order.
	3 CARRY MI 10 MAY 100
	The break Statement in C
	The break statement is used to exit the loop
	irrespective of whether the condition is frue or
	withenever a break is encountered inside the loop,
	William Land
	the control is sent ousing the loop
	11
	Let us see this with 9 (0) 8
	the help of an Example
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for (i=0; i 10000(sii++) Enimmero) 10 mm) A
$\frac{\text{prinff}(" \% d \ n", i);}{(i = = 5) 2}$ output \Rightarrow 0
break; 2
complet is that grann no feed the fol 43 will
and not o to 100 (20)
The continue statement in C
The continue statement is used to immideately move to the next iteration of the loop.
The control is taken to the next iteration thus
Skipping everything below "Continue" inside the bop for that iteration
Let us look at an example
dod int tskip = 5 bere in the more last david and
while (i/2 10) 2
if (i1= skip) Continue; Outpul => 5
else brint ("0/0 d" i);
and not 0.9

EBGH	

	Notes: Sometimes, the name of the variable might not in the behaviour of the program break statement completely exits the loop. Continue Statement Skips the particular iteration the loop.	,
17	Sometimes the name of the variable might not in	licate
	the behaviour of the brown	
2,	break statement completely exits the loop.	<u> </u>
3.	Continue Statement Skips the particular iteration	<i>Of</i>
	the loop.	
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