## Chapter 4 - Conditionals in Java Sometimes we want to watch comedy videos on you Tube if the day is Sunday. Sometimes, we order junk food if it is our friend's birthday in the hostel You might want to buy an Umbrella if its raining and you have the money. You order the meal if also or your favorite bhindi is listed on the menu. All these are decisions which depends on a certain condition being met. In Java, we can execute instructions on a condition being met. Decision making Instructions in Java → If - Else Statement → Switch Statement The syntax of an If-Else statement in C looks like that of C++ and Java Script. Java has a similar Syntax too. It looks like: if ( Condition - to - be-checked) { Statements - if - Condition - true; else & Statements - if - Condition - false;

1000	Code Example:
· Hen	int a = 29; if (a > 18) \( \frac{2}{5} \) System out println (" You can drive"); \( \frac{3}{3} \)
y del by	$\int \int \int \int \int \int \int \partial u du d$
	14 ( a 7 8) 2 Livette / " You can drive");
5, 14	5 ystem. out princing you ass.
- Baiuma	Note that the else block is optional
	more than the solor of the same of the same
	Relational Operators in Java Relational operators are used to evaluate conditions (true or false) inside the if statements. Some examples of relational operators are:
	Relational operators are used to evaluate Conditions
	( true sy table) inside the if statements.
	Some examples of relational operators are:
Λ.	an experit we have a turner and the sound and
	== >= > < .t < = you = not have
	== >= > < \ = = Not equals  capials greater than Not equals
	occep to a multipliar and making
	Note: '=' is used for assignment where as '==' is used for equality check.
	is used for equality check.
	The condition can be either true or false.
and salari	The state of the s
NA)	Logical Operators  88, 11 and ! are most commonly used logical
	28 11 and 1 are most commonly used logical
	operators in Java
	Operators in Java These are read as:
	Stormints - 11 - antiling - Hule of
	LE -> AND
	11 → OR ⇒ Used to provide logic to  Our LAVA programs
	1 -> NOT Jour AVA programs

-	
The second secon	AND Oberaha
-	AND operator Evaluates to true if both the condition are true
	$Y & Y = Y$ $Y \Rightarrow \text{true}$ $Y & Y \Rightarrow \text{false}$ $Y & Y \Rightarrow \text{false}$
	$\frac{1}{1}$ 8 8 N = N N $\rightarrow$ false
	$N & & & & & & \\ N & & & & & & \\ N & & & &$
-	M. Standold W.
	OR Operator
	OR Operator Evaluates to true when at least one of the conditions is true.
	shore of war in the man the four to make
	y 11 y = 11 y - + twe
	$Y \mid N = Y$ $N \rightarrow false$
	$\begin{array}{c} N & 11 & N & = N \\ N & 11 & N & = N \end{array}$
	The committee of the second se
ACCOUNTS AND ADDRESS OF THE PARTY OF THE PAR	Not Operator Negates the given logic (true becomes false and false becomes true)
Comment of the last	Negates the given logic (true Decomes talse range faise
	becomes full
	$  y = N $ $y \rightarrow true$
	i N = Y N → false
Children of the Control	Tited of using multiple if statements we can also
The Parcel of the	else if clause Instead of using multiple if statements, we can also use else if along with if thus forming an if-else- if-else ladder
	Using such kind of logic reduces indents last else is executed only if all the conditions fail.

if (Condition) {  11 Statements;
11 Statements; 1 Mod 11 mak of sand
The state of the s
else if {
115takments;
- V = Y = 9
else {
11 Statements;
3
transfer to the content to make our of reference
Switch Case Control Instruction
Switch - Case is used when we have to make thoice between number of alternatives for a given variable
and the petween number of alternatives for a
grand
Switch (Vax) {
Case CI:
11 code;
realist the given logic ( true; produce take some false
Case Cz:
11 Code
break; W= Y
alol 4 9 10 states of y i
Case C3:
11 Code
all one of which is standard to be to
-20-1 na default: ut ti die mila it als mi
11 Code 36601 219-101
sele teel 3 Hashed anubar supply to baid but asial
e executed any of all the landitions for

LLOS	-
Var can be an integer, character or string in Jav	a ·
A switch can occur within another but in practice is rarely done	this
100 100 100 100 100 100 100 100 100 100	
The second secon	
R("in mart") intend to make	
else for the second sec	
Of ("I for mo I") altered by maye	
The transfer of the street of the state of t	
while a program to find out whether a studied	4
to how for topy it fraging that have	
and of least 33% in each subject to pass.	
Person & Subjects and take mark's as he inful	
from the more	
Calculate income for baid by an employee to	8
description to bee the solds many transfer to	
A DESCRIPTION OF THE PARTY OF T	
told suggested	
751 - 5.0L 5%	
17 . 700 1001 1001	
Above 10.01 30%	
Not that there is no for below 9 to l. Take	
agreement on son input from the season	
by set too brit of maspord and a strike	4
of the year given the minder of the Mark	10
I have the parties of the	