## Z. Understanding Conditionals

Q) Valid Votes
let age = passe Int (prompt ("What's your age ?"));

if (age >= 18) 5 console-log ("You can vote"); 3 else 5

consult log ( You con't vote');

ParseInt -> 3.14 -> 3 Stoo age use 3 Number -> 3.14 -> 3.14 > Number >

it will say you can't vote", so to fix if we can run another condition

In JS,

Nan === Nan -> false

is to Check Ivan,

is Nan ( Number) -> tone is Nan ("haho")

Gonvertable num &

tone

if (isNan (age)) S console log ("Woong Input");

else if (age > 1875 console.log ("You can vote");

else 5 consule.log("(an't vate");

<i>a</i> )	Shop Discount
	Amount Pigcount
	0-5000 0%
	5001-7000 5%
	7001 - 9000 10%
	more than 9000 70%
	-> Find pay after discount
	let num = Number (prompt ("What's the given amount?"));
	Junction show Amt After Dis (disfer, total Amt) & consule log & "Amount After discount is"
	consule log & "Amount After discount is"
	Math. sound (total Amt - ((disper * total Amt) /100));
L. Die	3
	if (ig Nan (num)) 2
	if (is Nan (num)) S consule log ("Pooxide number please!");
Buch	else if (num 70 bl num <=5000) \$
	show Amt After Dis (0, num) i
	3
	else if (num 75000 bl num <=7000) 5 showAmtAyterDis (5, pum) i 3
	showAmtAnterDis (5, pum)i
	3
	else if (num 77000 lb num <= 1000) S showAmt Aften Dis (10, num);
	showAnt Aften Dis (10, num);
	3
	ShowAmtAster Dis (70, num)i
	else 5 ShonAmtAfterDis (70, num)i 3
10000	

Date / / Electricity RILL Unit KS 4.7/unit upto 100 RS 6 /unit 10.1-700 RS 8/unit 701-400 RS 13 /unit More than 400 - Nets say Unit is 290 upto 100 -> 4.2 × 100 is applied (serains -> 790-100) = 190 now, 100 -> 6 x 100 -> R5 600 Remaining, 50 unit 50 x 8 = 12400 Total payable -> 470+ 600+ 400 = RS 1470 Approach - write code from bottom to top
instead of top to bottom.
We will apply code with waterfall like Stouchuse let unit = Number (poorapt ("Enter the unit: "));
lets say? let billAmount = 0; -> initially o if (unit > 400) S Let applicable Amt = unit-400; 1/700-400 -> 300

| bill Amount += applicable Amt \* 13; 1/3 900

this is L' unit = 400; 1/ units above 400 is done, let's

same or 3

seduce the Value of unit for

hill Amount + applicable no step billAmount = hillAmount + applicablemether step eAm \* 13;

if (unit <= 400 El unit 7700) S 11 unit -> 400 let applicable Amt = unit - 700i 1/ 700 bill Amount + = applicable Amt + 8; 11 3900 + 1600
unit = 700; -> again charging unt = 5500

if (unit <=700 && unit > 100) 5 Let applicable Ant = unit - loui bill Amount += applicable Amt +6; 119900 + 600 Unit = 100;

bill Amount += unit x 4+7 4.7; 116/00 + 470 Honly I condition us remaining, no need of if-statement

consule log ("The bill is: ", bill Amount);

a) INR Penomination

User will give a see number, your code have to calculate how many wrong Amount It con create from biggest to smallest.

RS 500 RS 700 RS 100 RS 50 RS 70 RS 10 RS 5 RS 7 RS 1

-> The user giver, 15770

He can have -1 rote of 185 500

-> 1 rote of 185 700

-> 2 rote of 18570

8 ho of Rs 900 notes in 700

Math. toun((900 170/900)) -> 1

Remaining oupeer > 470/900 -> 700 let super = parseInt (prompt ("Enter the super"); 11 Checking RS 900 notes if (oursele log ("Rs 500 notes:", Math. tounc (oupees 1500),
onsole log ("Rs 500 notes:", Math. tounc (oupees 1500),
oupees = oupees/- 500i Hupdating remaining Amou 11 checking Rs 200 notes if ( oupeer 7=200 ll oupeer < 900) & consider log ("RS 700 notes:", Math. tounc (supers / 700), ... same logic 106 Rg 100, 90, 70, 10, 5, Z if ( oupeer = = = 1) & console.log ("Re 1 coins: ", oupeer); > output for 555 RS 500 Hotes: 1 Rs 50 notes: 1 Ry 5 notes: 1

# Ternany operation

condition? "if-tone": "else";

Eg: Find the number is positive, negative or zetro

let num = 0; -> user will give consule.log (num >0? "Positive": num <0? " Negative": "12070");

L> nested ternapy operates

# Switch statement

Los To stop using long it also chain, we can use switch statement.

check operation.

Eg: User = 1 (0 > morday, 1 > Tuesday etc)

Poill match with value of user

guitch (usen) 5

Case 0: (onsile. log ("Monday");

(ase 1: console.log ("Tuesday");
boeak;

default: (onsule log ("Invald week day");

\* fall thanigh in 4 witch If switch conditions does not have boeak. code will execute to rent condition, even if it does not match enpoession Let day = 1; switch (day) S Case o Console log ("Monday") booak; case 1: console log ("Tuesday") break - bollak is not used (ase 7: console log ("Wednesday") boeatt -> orther Tresday Wednesday \* When con we use switch by When we have constant value, and we have to match with many und tions. To find user, we can use switch condition with roll no to find was info Switch (soll No) S Surth 1: console log ( "Ash"); bolak 0

+ You will oull a die , make an efficient switch
Statement to tell the di number coming in dice
is odd or even

let dice = - > [1,7,3,4,5,6]

Switch (dice) S switch 1: Switch 3: Switch 5: Consolo log ("odd"); boodk

> Switch 7: Switch 4: Switch 6: (onsole log ("even"); bolak

# Truthy switch pattern

let 5000 - 65) make us eigible to sun if-else like

switch (toue) & conditions inside switch

(age 5000 750)

(onsale log ("Past,");

break;

(a) & score <= 50; (a) Score log ("Forled"); bocall

3

console log (0.1+0.2) -> 0.3000 ... 4 Toget 0.3 (0040 le. log ( Con 0.1+0.2). to Fined (1)) -> 0.3 0.78. to Fined(1) > 0.8 0.78. to Fined (3) -> 0.780