9aug

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Document</title>
</head>
<body>
    <script src="ifelse.js"></script>
</body>
</html>
```

Script.js

```
// Eligible for Vote.
let age = 1;
if (age >= 18) {
  console.log("You Can Vote");
} else {
  console.log("You Can't Vote");
}
```

Output:

You Can't Vote

```
// n = ? (20----50)
let n = 25;
if (n > 15 && n < 20) {
  console.log("number is between 10 and 15");
} else {
  console.log("number is not between 10 and 15");
}
```

Output:

number is not between 10 and 15

//leap year in nested if else

```
let year=2004;
if(year % 4 == 0 ) {
  console.log("year is leap year");
}else{
  console.log("year is not leap year");
}
```

Output:

year is leap year

//Find the type of triangle

```
let a;
let b;
let c;
if (a == b && b == c) {
  console.log("Eqilateral triangle");
} else if (a == b || (b == c)(a == c)) {
  console.log(" Isosceles triangle");
} else if (
  a ** 2 + b ** 2 == c ** 2 ||
  b ** 2 + c ** 2 == a ** 2 ||
  c ** 2 + a ** 2 == b ** 2
) {
  console.log(" Right Angled triangle");
```

```
} else if (a != b || b != c || c != a) {
  console.log(" Scalene triangle");
} else if (a == 0 || b == 0 || c == 0) {
  console.log(" Invalid triangle because length of side can't to 0");
} else {
  console.log(" Invalid triangle");
}
```

Output:

Eqilateral triangle

```
//------------------------------

let MIL =20;
let CPL =3.12;
WIT = MIL/4;

let Total_milk= MIL+WIT;

let actual_sell_price=Total_milk*4.75;
let actual_cost_price=MIL * CPL;

let profit = actual_sell_price-actual_cost_price
console.log("profit:" +profit +"RS");
console.log("cp:" +actual_cost_price +"RS");
console.log("sp:" +actual_sell_price +"RS");
```

output:

profit:56.349999999999994RS

cp:62.400000000000006RS

sp:118.75RS

```
//ATM pin

 let pin = 7104;
if(pin == 7106){
 console.log("pin is valid");
}else{
 console.log("pin is not valid");
}
```

Output:

pin is not valid

```
//number is 1 digit or 2 digit or 3 digitor 4 digit or above 5 number

  let num = 4450;
 if(num>=9 && num<=9){
   console.log(" one digit number");
 }else if(num>=10 && num<=99){
   console.log(" two digit number");
 }else if(num>=100 && num<=999){
   console.log("three digit number");
 }else if(num>=1000 && num<=10000){
   console.log("four digit number");
 }
```

Output:

92 four digit number

```
//three subject marks display total,percentage,class.

let s1=76;
let s2=89;
let s3=58;

total=76+89+58;
percentage=(total/3.0);
if(percentage >= 75)
  grade="Distinction";
else if(percentage  >= 75)
  grade="First Class";
else if(percentage  >= 60)
  grade="Second Class";
else if(percentage  >= 50)
  grade="Pass Class";
else{
  grade="Fail";
}
console.log("Total Marks:" +total);
console.log("Percentage:" +percentage);
console.log("Class:" +grade);
```

Output:

Total Marks:223

Percentage:74.33333333333333

Class:Second Class

```
// age,weight,hemoglobin & check he/sheis eligible for blood donation.

let p_age=20;
let weight=45;
hemoglobin=10.5;
if(p_age >= 18 && age <= 65){
  if(hemoglobin>=12.5){
    console.log("You are eligible to donate blood.");
  }else{
    console.log("You are not eligible to donate blood due to low hemoglobin level.");
  }
}
```

Output:

You are not eligible to donate blood due to low hemoglobin level.

```
//traffic light .the program asks the user for the current color of the trafficlight and then informs them of the appropriate action based on the color.

 let color;
color='g';
if(color=='r' || color=='R'){
  console.log("stop");
}else if(color=='g' || color=='G'){
  console.log("Go Slow");
}else if(color=='y' || color=='Y'){
  console.log("Go");
}else{
  console.log("please change color");
}
```

Output:

Go Slow

//acept 10th ,12th and graduation marks from user and check he/she eligible for interview or not.

```
let tenth_marks=78;
let twelfth_marks=89;
let graduation_marks=87;
if(tenth_marks >=60 && twelfth_marks >=60 && graduation_marks>=65)
{
  console.log("You are eligible for the interview");
}else{
  console.log("You are not eligible for the interview");
}
```

Output:

You are eligible for the interview

// display charater is vowels

```
let ch='s';
if (ch=='a'||ch=='A'||ch=='e'||ch=='E'||ch=='i'||ch=='I'||ch=='o'||ch=='O'||ch=='u'||ch=='U')
{
  console.log(ch+"is vowel");
}else{
  console.log(ch+"is not vowel");
}
```

Output:

s is not vowel

```
//Positive & Negative

let x=10;
if(x>0)
{
  console.log(x+"is Positive");
}else if(x<0){
  console.log(x+"is Negative");
}else{
  console.log("Zero");
}
```

Output:

10is Positive

```
//Minimum of two number

let n1=20;
let n2=45;
if(n1 < n2){
  console.log(n1+ "is min");
}else if(n2<n1){
  console.log(n2+ "is min");
}else{
  console.log("both are equal");
}
```

Output:

20is min

```
//Maximum of two number


let p=39;
let q=65;
if(p > q){
  console.log(p+ "is max");
}else if(q > p){
  console.log(q+ "is max");
}else{
  console.log("both are equal");
}
```

Output:

65is max