*Assignment*

Que.01 Explain the usage of ternary operator with syntax and write a program to check whether the number is even or odd using the ternary operator.

Ans. The ternary operator is a shorthand way of writing an **if-else** statement in many programming languages, including JavaScript. It allows you to write a concise conditional expression in a single line.

Syntax:-“condition ? expression\_if\_true : expression\_if\_false ; ”

// Assuming 'num' is the number to be checked

let num = prompt("Enter a number:");

// Using the ternary operator to check even or odd

let result = (num % 2 === 0) ? `${num} is even.` : `${num} is odd.`;

// Displaying the result

console.log(result);

Que.02 Describe the usage of the comma operator in JavaScript and provide an example ?

Ans. In JavaScript, the comma operator “,”is used to evaluate multiple expressions and return the value of the last expression. It allows you to combine multiple expressions into a single statement. The comma operator is evaluated from left to right, and each expression is executed in order.

Eg. let a = 1, b = 2, c = 3;

// Using the comma operator in a for loop

for (let i = 0, j = 10; i < 5; i++, j--) {

console.log(`i: ${i}, j: ${j}`);

}

Que.03 Use a nested ternary operator to check that a number is positive, negative or zero. You have to print “positive” if the number is positive and similarly for negative and zero also.

Ans. let num **=** **-**4 **;**

let result **=** (num**>**0) **?** "positive" **:** (num**<**0) **?** "negative" **:** "zero"**;**

console**.**log(`${num} is ${result}`)**;**

Que.04 Use a ternary operator to check that a person is eligible to vote or not by checking his age. If the age of the person is less than 18 then “You cannot vote” should be logged else “You can vote” should be logged.

Ans. let age **=** 15 **;**

let eligibilitymessage **=** (age**>**18) **?** "You can vote" **:** "You cannot vote"**;**

console**.**log(eligibilitymessage)**;**