TASK1: Explain the usage of ternary operator with syntax and write the program to check whether the number is odd or even?

SOLUTION:Ternary operator is used to test the conditions similar to that of an if else block. It has three operands: condition, statement if condition is true and statement if condition will be false

SYNTAX:

Condition ? value if true : value if false;

const num = 5;

const result = num % 2 == 0 ? "even" : "odd";

console.log(result);

TASK:2 Describe the usage of the comma operator in JavaScript and provide an example.

SOLUTION:2 Comma operator allows us to evaluate multiple expressions in a single statement like declaring multiple variables in a single statement separating them with the comma operator.

Example:

const num1 = 5 ,num2 = 10 , num3 = 15;

console.log(num1 , num2 , num3);

TASK 3: 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.

SOLUTION:

const num1 = 5;

num1>0 ? console.log("positive"):

num1<0 ? console.log("negative"):

console.log("zero");

TASK:4 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.

SOLUTION:

const age = 20;

age>18 ? console.log("you can vote"): console.log("you cannot vote");