**1. Date Object:** I have given the answer for both (a and b) in one script for question no 1

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>Date Object</title>  
</head>  
<body>  
<script>  
 function verifyDateFormat(dateString) {  
 const pattern = /^\d{4}-\d{2}-\d{2}$/;  
 return pattern.test(dateString);  
 }  
 const ***nameOfAllDays*** = ['Sunday', 'Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday'];  
 function dayOfTheWeek(paramDate) {  
 const date = new ***Date***(paramDate);  
 const dayIndex = date.getDay();  
 return ***nameOfAllDays***[dayIndex];  
 }  
 // Example usage  
 const ***exampleDate*** = "2023-06-19";  
 const ***verifyFormat*** = verifyDateFormat(***exampleDate***);  
 if (***verifyFormat*** === true){  
 const dayOfWeek = dayOfTheWeek(***exampleDate***);  
 ***document***.write("Day of the week is "+dayOfWeek);   
 ***console***.log("Day of the week is "+dayOfWeek);   
 }else{  
 ***document***.write("The date format should be like YYYY-MM-DD");  
 ***console***.log("The date format should be like YYYY-MM-DD");  
 }  
 //Current Date Function   
 function formatDate(currentDate) {  
 const year = currentDate.getFullYear();  
 const month = String(currentDate.getMonth() + 1).padStart(2, '0');  
 const day = String(currentDate.getDate()).padStart(2, '0');  
  
 return `${year}-${month}-${day}`;  
 }  
 // Example usage for current date  
 const ***currentDate*** = new ***Date***();  
 const ***formattedDate*** = formatDate(***currentDate***);  
 const ***currentDateVerify*** = verifyDateFormat(***formattedDate***);  
 if (***currentDateVerify*** === true){  
 const currentDayOfWeek = dayOfTheWeek(***formattedDate***);  
 ***document***.write("<br>"+"Day of the week for current date is "+currentDayOfWeek);  
 ***console***.log("Day of the week for current date is "+currentDayOfWeek);  
 }else{  
 ***document***.write("The date format should be like YYYY-MM-DD");  
 ***console***.log("The date format should be like YYYY-MM-DD");  
 }  
</script>  
</body>  
</html>

**2. Math Object:** I have given the answer for both (a and b) in one script for question no 2

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>Math Object</title>  
</head>  
<body>  
 <script>  
 function sumOfSquares(numbers) {  
 const sumOfSquares = numbers.reduce((sum, num) => sum + ***Math***.pow(num, 2), 0);  
 const squareRoot = ***Math***.sqrt(sumOfSquares);  
 return squareRoot;  
 }  
 //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*=== Question No a ===\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 function numbersFromInput() {  
 const inputNumbers = [];  
 while (true) {  
 const input = prompt("Enter a valid number (or write 'done' to finish):");  
 if (input === "done") {  
 break; // Exit the loop if the user enters "done"  
 }  
 const takeNumber = parseFloat(input);  
 if (!isNaN(takeNumber)) {  
 inputNumbers.push(takeNumber);  
 }  
 }  
 const inputNumbersResult = sumOfSquares(inputNumbers);  
 ***document***.write("result of question no a "+inputNumbersResult);  
 ***console***.log("result of question no a "+inputNumbersResult);  
 }  
 numbersFromInput();  
 //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*=== Question No b ===\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 // Example usage  
 const ***fixedNumbers*** = [1, 2, 3, 4, 5];  
 const ***fixedNumbersResult*** = sumOfSquares(***fixedNumbers***);  
 ***document***.write("<br>"+"result of question no b "+***fixedNumbersResult***);  
 ***console***.log("result of question no b "+***fixedNumbersResult***);  
  
 </script>  
</body>  
</html>

**3. Numbers:** I have given the answer for both (a and b) in one script for question no 3

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>Numbers</title>  
</head>  
<body>  
 <script>  
 //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*=== Check Positive Number ===\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 function checkPositivePrimeNumber(number) {  
 if (number > 0) {  
 return true;  
 } else {  
 return false;  
 }  
 }  
 //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*=== Check Prime Number ===\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 function isPrime(number) {  
 if (number < 2) {  
 return false;  
 }  
 for (let i = 2; i <= ***Math***.sqrt(number); i++) {  
 if (number % i === 0) {  
 return false;  
 }  
 }  
 return true;  
 }  
 //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*=== Input Number ===\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 function numbersFromInput() {  
 let primeCheck;  
 let inputNumber;  
 let isValidInput = false;  
 while (!isValidInput) {  
 inputNumber = prompt("Enter a positive number:");  
 isValidInput = checkPositivePrimeNumber(inputNumber);  
 if (isValidInput === true){  
 primeCheck = isPrime(inputNumber);  
 }  
 if (!isValidInput) {  
 alert("Invalid input. Please enter a positive number.");  
 }  
 }  
 if (primeCheck === true){  
 ***document***.write("Your input number is " + inputNumber + " which is positive prime number so result is: "+primeCheck);  
 ***console***.log("Your input number is " + inputNumber + " which is positive prime number so result is: "+primeCheck);  
 }else{  
 ***document***.write("Your input number is " + inputNumber + " which is positive but not prime number so result is: "+primeCheck);  
 ***console***.log("Your input number is " + inputNumber + " which is positive but not prime number so result is: "+primeCheck);  
 }   
 }  
 numbersFromInput();   
   
 </script>  
</body>  
</html>