JAVASCRIPT- ASSIGNMENT-02

Basic Programs to analyze:

1. Program to swap two numbers without using third variable.
2. Program to check whether number is Palindrome or not
3. Program to check whether number is Perfect square or not
4. Program to check whether a number if Armstrong or not.
5. Program to check whether a number if Even or Odd.
6. Program to check given number is prime number or not.
7. Program to check given number is strong number or not.
8. Program to check a number is odd or even.
9. Program to reverse any number.
10. Program to find out sum of digit of given number.
11. Program to add two numbers without using addition operator.
12. Program to count number of digits in a number
13. Program to Check Whether a Character is Vowel or Consonant
14. Program to Find the Largest Number Among Three Numbers
15. Program to Check Whether a Number is Positive or Negative
16. Program to Calculate the Sum of Natural Numbers
17. Program to Generate Multiplication Table
18. Program to find factorial of a number.
19. Program to print Fibonacci Series
20. Program to check whether it is Anagram.

Concept wise programs:

Basics:

Task1:

Write a Program User to enter name and displaying the same name with welcome message?

Write a JavaScript Program which changes the content?

a.

Which Country are you from?

Check Answer

When user clicks on check answer it should able to display answer.

Im from India

Check Answer

b.

Where is Hyderabad?
a. Telangana
b. Delhi
c. Kolkata
Show Answer

Where is Hyderabad?
a. Telangana
b. Delhi
c. Kolkata
Show Answer
Ans. Telangana

Task2:

Apply CSS for JavaScript "Change font-size of "Hello Teammm!"" upon button click.

Hello Teammm!

Click Me!

Hello Teammm!

Click Me!

Task3:

- ✓ Write a function called squareNumber that will take one argument (a number), square that number, and return the result. It should also log a string like "The result of squaring the number 3 is 9."

- ✓ Write a JavaScript program for Addition and Multiplication of two Numbers?

1st Number : 12

2nd Number: 10

[Multiply] [Divide]

The Result Is :
120

✓ Write a JavaScript program to calculate the area of square

Calculate Area of Square?

Enter Area: [_____]

[Calculate]

Answer: [_____]

✓ Design Basic Arithmetic Operations:

9   8

[+] [-] [X] [/]

Result: 17

Task4:

a) Design Simple radio buttons with yes and No, when clicked on yes display 3 fields and when clicked on "No" Display one field.

Yes ● No ○
If yes, explain: [_____]
What can we do to accommodate you? [_____]
other [_____]

Yes ○ No ●

other [_____]

b) When clicked on square display alert with properties of it.

Click on the square.

Task 5:

a) JavaScript program to print the contents of the current window.
   Now modify the style of the paragraph text through JavaScript code

```
<!DOCTYPE html>
<html>
<head>
<meta charset=utf-8 />
<title>JS DOM paragraph style</title>
</head>
<body>
<p id ='text'>JavaScript Exercises - w3resource</p>
<div>
<button id="jsstyle" onclick="js_style()">Style</button>
</div>
</body>
</html>
```
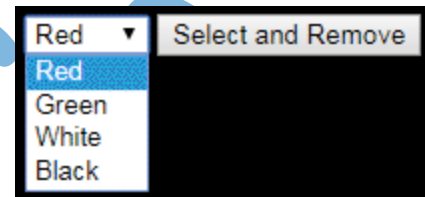
b) Write a JavaScript function to add rows to a table

```
<!DOCTYPE html>
<html><head>
<meta charset=utf-8 />
</head>
<body>
<table id="sampleTable" border="1">
<tr><td>Row1 cell1</td>
<td>Row1 cell2</td></tr>
<tr><td>Row2 cell1</td>
<td>Row2 cell2</td></tr>
</table><br>
<input type="button" onclick="insert_Row()" value="Insert row">
</body>
</html>
```

New Cell1	New Cell2
New Cell1	New Cell2
New Cell1	New Cell2
Row1 cell1	Row1 cell2
Row2 cell1	Row2 cell2

Insert row

c) JavaScript program to remove items from a dropdown list.

```html
<!DOCTYPE html>
<html><head>
<meta charset=utf-8 />
<title>Remove items from a dropdown list</title>
</head><body><form>
<select id="colorSelect">
<option>Red</option>
<option>Green</option>
<option>White</option>
<option>Black</option>
</select>
<input type="button" onclick="removecolor()"
value="Select and Remove">
</form>
</body>
</html>
```

Numbers:

Write a Program to check if a given Integer is odd or even?

Write a Program to check if given integer is positive or negative?

Write a Program to check if given Integer divisible by 5 or not?

Write a Program to accept two Integers and check if they're Equal?

Write a Program to print next 5 numbers of user entered digit?

Write a Program to Print Multiplication table of a user entered number?

Write a JavaScript program to compute the sum of the two given integers. If the two values are same, then returns triple their sum?

Write a JavaScript program to check two given numbers and return true if one of the number is 50 or if their sum is 50?

Write a JavaScript program check if a given positive number is a multiple of 3 or a multiple of 7?

Write a JavaScript program to find the largest of three given integers?

Write a JavaScript program to check if the last digit of the three given positive integers is same?

Write a JavaScript program to compute the sum of the two given integers, If the sum is in the range 50..80 return 65 other wise return 80?

Write a JavaScript program to check two given integer values and return true if one of the number is 15 or if their sum or difference is 15?

Write a JavaScript program to compare two objects?

Write a JavaScript Program to swap two numbers without using the third variable.

Write a program to generate random password in javascript?

Arrays:

Program to copy all elements of one array into another array

Program to print the duplicate elements of an array

Program to print the elements of an array

Program to print the elements of an array in reverse order

Program to print the elements of an array present on even position

Program to print the elements of an array present on odd position

Program to print the largest element in an array

Program to print the smallest element in an array

Program to print the number of elements present in an array

Program to print the sum of all the items of the array & average of it

Program to find duplicate elements in an array?

Program to find second largest number in an integer array?

Program to find 2nd Largest Number in an Array?

Strings:

Program to count the total number of characters in a string

Program to count the total number of vowels and consonants in a string

Program to replace lower-case characters with upper-case and vice-versa

Program to determine whether a given string is palindrome

Program to find Reverse of the string

Program to print the user entered string in reverse order?

Program to reverse a string without using String inbuilt function reverse()

Program to find the duplicate characters in a string

Program to find the frequency of characters

Program to create a new string from a given string changing the position of first and last characters?

Program to create new string with first 3 characters are in lower case from a given string. If the string length is less than 3 convert all the characters in upper case?

Write a program to capitalize first letter of a string?

Math:

Write a JavaScript program to generate random password?

Dates:

Write a JavaScript program to display the current day Ex: Tuesday?

Write a JavaScript program to determine whether a given year is a leap year?

Write a JavaScript program to extract last two digits of given year?

Regular Expressions:

Write a Javascript Form Validation: Checking for Empty fields

Write a Javascript Form Validation: Checking for Mobile Number

Write a Javascript Form Validation: Checking for Password

Write a Javascript Form Validation: Alphabetic Data Input

Write a JavaScript Form Validation: Removing Spaces and Dashes

Write a JavaScript JavaScript Form Validation: Removing Nondigits

Write a JavaScript Form Validation: Removing Nonaplhanumeric Characters

Write a Javascript Form Validation: Checking for Radio button

Write a Javascript Form Validation: Checking for CheckBox

Write a JavaScript Form validation checking for Email Address.

Form validations:

When clicked on username it should accept 7 letters or characters and display error message below to it:

Username Reddy   Submit
username needs to be longer than 7 characters

Registration Form

User id:	Required and must be of length 5 to 12.
Password:	Required and must be of length 7 to 12.
Name:	Required and alphabates only.
Address:	Optional.
Country:	(Please select a country) Required. Must select a country.
ZIP Code:	Required. Must be numeric only.
Email:	Required. Must be a valid email.
Sex:	○ Male ○ Female Required.
Language:	☑ English ☐ Non English Required.
About:	Optional.

Submit

Patterns:

Write a Program to Print a Star Pattern using JavaScript?

a)

```
*****
****
***
**
*
```

b)

```
*
**
***
****
*****
```