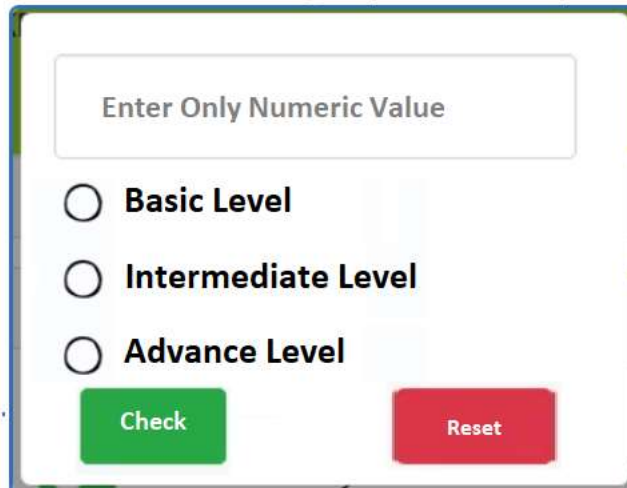


Lab Plan 10 - Third JavaScript Lab (Intermediate level)

Q #1 Write a JavaScript Program to take input range from the user and Guess a Random Number.

The program continues until the user guess the number.



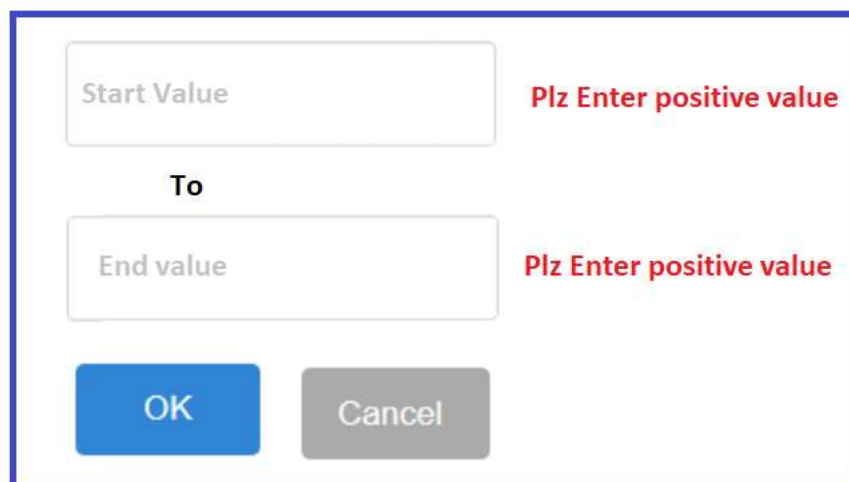
The screenshot shows a web form with a text input field at the top containing the placeholder text "Enter Only Numeric Value". Below the input field are three radio button options: "Basic Level", "Intermediate Level", and "Advance Level". At the bottom of the form are two buttons: a green "Check" button and a red "Reset" button.

There are three levels and must select at least any one option.

- Basic Level Range 1 to 10
- Intermediate Level range 50 to 100
- Advance level Range 101 to 500

Note: After selecting an option, the user can enter numbers only within the number range of that option.

Q #2 Write a JavaScript Program to take inputs natural numbers from the user to find the sum of natural numbers and displays a sum of value on the screen.



The screenshot shows a web form with two text input fields. The first field is labeled "Start Value" and the second field is labeled "End value". Between the two fields is the word "To". To the right of each input field is a red error message that says "Plz Enter positive value". At the bottom of the form are two buttons: a blue "OK" button and a grey "Cancel" button.

- Check empty fields without required attribute and show error message in front of text box
- Set placeholder in text boxes.
- Create two buttons and apply appropriate Tailwind CSS.

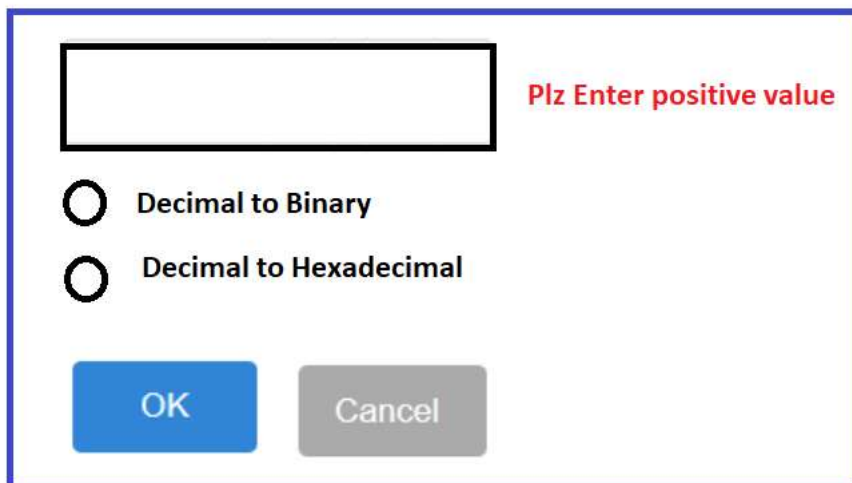
Q #3 Write a JavaScript Program to get the number from the user and Check Armstrong Number or not and displays a message on the screen.



The mockup shows a rectangular form with a blue border. Inside, there is a text input field with a light gray border and the placeholder text 'Three-digit positive integer'. To the right of the input field is a red error message 'Plz Enter positive value'. Below the input field are two buttons: a blue 'OK' button and a gray 'Cancel' button.

- Check empty fields without required attribute and show error message in front of text box
- Set placeholder in text boxes and accept only three digit values
- Create two buttons and apply appropriate Tailwind CSS.

Q #4 Write a JavaScript Program to convert decimal to binary and hexadecimal value and displays a message on the screen.



The mockup shows a rectangular form with a blue border. Inside, there is a text input field with a black border. To the right of the input field is a red error message 'Plz Enter positive value'. Below the input field are two radio button options: 'Decimal to Binary' and 'Decimal to Hexadecimal'. At the bottom are two buttons: a blue 'OK' button and a gray 'Cancel' button.

- There are two options and must select at least any one option.
- Create two buttons and apply appropriate Tailwind CSS.

Q #5 Write a JavaScript Program to take input from the user and convert value into different temperature and show result as alert on the screen.

Plz Enter positive value

☐ Celsius to Fahrenheit

☐ Fahrenheit to Celsius

☐ Celsius to kelvin

☐ Kelvin to Celsius

OK Cancel

- There are four options and must select at least any one option.

Formulas:

- ❖ Celsius to Kelvin: $K = C + 273.15$
- ❖ Kelvin to Celsius: $C = K - 273.15$
- ❖ Fahrenheit to Celsius: $C = (F - 32) \times (5/9)$
- ❖ Celsius to Fahrenheit: $F = C \times (9/5) + 32$