

1 Assignment

1. Write a program to check if a given number is positive, negative, or zero using if-else.
2. Write a program that uses `confirm()` to ask the user: Do you want to proceed? If the user clicks OK, display You chose to proceed in an alert. If the user clicks Cancel, display Action canceled.
3. Modify this code to use a ternary operator instead of if-else:

```
var num = 10;
if (num % 2 === 0) {
  console.log("hi");
} else {
  console.log("hello");
}
```

4. Ask the user to enter their age. You must validate the user input (positive numbers only). Show the status of the user knowing that:
 - Child is between 1-10
 - Teenager is between 11-18
 - Grown up is between 19-50
 - Old is greater than 50 Keep asking the user to enter another age until they click cancel.
5. Ask the user to enter a string. Count the number of vowels in that string (a, e, o, u, i).
6. Write a JavaScript program to convert the 24-hour clock to 12-hour, adding AM or PM based on its value. Use `prompt()` to get the value from the user. Examples: 0 -> 12AM
11 -> 11AM 13 -> 1PM
7. Write a JavaScript program to convert the first letter of a string to uppercase. Ask the user to enter the string and show the result.
8. Write a script where the user confirms their choice of color:
 - First, use `prompt()` to let the user type their favorite color.
 - Then, use `confirm()` to ask: "You chose [color]. Is that correct?"
 - If OK, display an alert: "Great choice!"
 - If Cancel, display: "Let's try again."
9. Write a while loop that keeps prompting the user for a password until they enter the correct one.
10. How do you compare two dates in JavaScript to see if one is earlier than the other?
11. Write a JavaScript program to calculate the number of days between two given dates.
12. Use a for loop to calculate the sum of all even numbers between 1 and 100.
13. How can you extract the substring World from the string Hello World!?
14. How can you round the number 5.678 to two decimal places?
15. Write a JavaScript program that returns `true` if a number is divisible by both 3 and 5, otherwise `false`.