1. Variable Manipulation:

• Declare three variables: a, b, and c.

• Assign values 10, 20, and 30 to a, b, and c, respectively.

• Calculate the sum of these three variables and store it in a new variable total.

• Print the value of total to the console.

2. Conditional Statements:

• Declare a variable num and assign it a value.

• Write an if statement to check if num is even or odd.

• Print "Even" if it's even and "Odd" if it's odd.

3. Looping:

• Write a loop that prints numbers from 1 to 10 (inclusive) to the console.

4. Looping with Conditions:

• Write a loop that prints numbers from 1 to 100.

• For multiples of 3, print "Fizz" instead of the number.

• For multiples of 5, print "Buzz" instead of the number.

• For numbers which are multiples of both 3 and 5, print "FizzBuzz".

5. Arrays and Loops:

• Create an array called fruits containing the names of five different fruits.

• Use a loop to print each fruit in the array to the console.

6. Functions:

• Write a function called calculateCircleArea that takes the radius of a circle as a parameter and returns its area.

• Call the function with a radius of 5 and print the result.

7. Nested Loops:

• Write nested loops to create a pattern like the one below:

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8. Array Manipulation:

• Create an array called numbers containing some random numbers.

• Write code to find the maximum and minimum numbers in the array.

• Print both the maximum and minimum numbers to the console.

9. String Manipulation:

• Declare a variable sentence and assign it a string of your choice.

• Write code to count the number of words in the sentence (assume words are separated by spaces).

• Print the count to the console.

10. More Conditional Statements:

• Declare three variables: x, y, and z.

• Write code to find the largest among these three variables.

• Print the largest number to the console.