# Module 4.2 If Statements: Coding Questions

## Coding Question:

Write an if statement to check if a number is positive, and print 'Positive' if it is.

## Hint:

Use `if number > 0:` to check if the number is greater than zero.

## Coding Question:

Determine if a number is odd or even, and print the result.

## Hint:

Use the modulus operator `%` with 2 to determine if a number is odd or even.

## Coding Question:

Check if a number is within the range of 1 to 10 inclusive.

## Hint:

Use logical operators `and` to check if the number is `>= 1` and `<= 10`.

## Coding Question:

Write an if-elif-else statement that prints 'Small' for numbers less than 10, 'Medium' for numbers between 10 and 20 inclusive, and 'Large' for numbers greater than 20.

## Hint:

Chain conditions using `if`, `elif`, and `else` to categorize the number.

## Coding Question:

Given a list, print 'List is not empty' if it contains at least one element.

## Hint:

Directly use the list in the if condition to leverage its truthiness.

## Coding Question:

If a string is longer than 10 characters, print 'Long string', otherwise print 'Short string'.

## Hint:

Use the `len()` function to determine the string's length.

## Coding Question:

Check if a year is a leap year.

## Hint:

A year is a leap year if it's divisible by 4, except for years which are both divisible by 100 and not divisible by 400.

## Coding Question:

Given a character, check if it is a vowel or consonant.

## Hint:

Use an if statement with multiple `or` conditions to check if the character is a vowel.

## Coding Question:

Write a program that checks if a variable `a` is greater than `b`, equal to `b`, or less than `b`, and prints the appropriate message.

## Hint:

Use if-elif-else statements to compare `a` and `b`.

## Coding Question:

Check if a given number is positive, negative, or zero, and print the result.

## Hint:

Use if-elif-else statements to categorize the number based on its value.