

Office Scripts function to add a formula column to an Excel table

This multi-line comment above the function is called a JSDoc. It describes the function, its parameters, and the return type

```
/**
 * Adds a formula column to an Excel table.
 *
 * @param table The ExcelScript.Table to which the column will be added.
 * @param columnName The name of the new column.
 * @param formula The formula to assign to the data range of the column.
 * @param numberFormat (Optional) The number format for the column data.
 * @returns The modified ExcelScript.Table.
 */
```

```
function addFormulaColumn(
  table: ExcelScript.Table,
  columnName: string,
  formula: string,
  numberFormat?: string): ExcelScript.Table {
```

Append parameter names with a ? to make them optional

Add a column to the right of the table, with no values and the column header as supplied

```
  // Create a new column with the given name
  const column = table.addColumn(-1, null, columnName)
```

```
  // Get the range of the data (not the header or total rows)
  const range = column.getRangeBetweenHeaderAndTotal()
```

This version of getRange ensures we aren't about to update and overwrite the column name

```
  // Assign the formula to the data range
  range.setFormula(formula)
```

```
  // Set the number format if provided
```

```
  if (numberFormat) {range.setNumberFormat(numberFormat)}
```

```
  // Return the modified table
  return table
}
```

This shortened if-then syntax is known as a ternary operator. In this example, it applies a numberFormat to the column if one was supplied

