#### main()

Runs the program and calls the functions in a logical sequence

Input: none Output: None

#### read\_csv\_file(filename)

Reads the dataset and converts it into a list of dictionaries

Input: filename (str) Output: data (list of dicts)

## avg\_yield\_by\_crop(da ta)

Calculates avg ]yield by crop type

Input: data (list of dicts)
Output: avg\_by\_crop

#### avg\_yield\_by\_fertilizer\_ use(data)

Calculates average yield for fertilizer use vs non-fertilizer use

Input: data (list of dicts)
Output: \_avg\_by\_fertilizer

### compare\_avgs(avg\_crop, avg\_fertilizer)

Compares average yields to see if fertilizer has an impact

Input: avg\_crop, avg\_fertilizer Output: comparison results (dict)

# write\_results(avg\_crop, avg\_fertilizer, filename)

Writes results to an output file

Input: none Output: None