

Im not able to do app script on my google sheets though i have tried many times but it didnt get me log in and flakes due to privacy issues i cant sign in .
therefore , im typin here the appscript generated by chatgpt and i have already created a google sheet which is attached.

Create a student dataset and use Google Apps Script to automate formatting and analysis.
Using , perform these operations:

1. Highlight Scores

- Red: Any score < 40
- Green: Any score > 80

```
function highlightScores() {  
  const sheet = SpreadsheetApp.getActiveSpreadsheet().getActiveSheet();  
  const range = sheet.getDataRange(); // Select all data  
  const values = range.getValues();  
  
  // Start from row 2 and column 2 to skip headers and names  
  for (let row = 1; row < values.length - 1; row++) { // Exclude last row (Average)  
    for (let col = 1; col < values[0].length; col++) {  
      const cell = range.getCell(row + 1, col + 1); // Adjusting for 1-indexing  
      const score = values[row][col];  
      if (typeof score === 'number') {  
        if (score < 40) {  
          cell.setBackground('#ff9999'); // Light red  
        } else if (score > 80) {  
          cell.setBackground('#b6ffb6'); // Light green  
        } else {  
          cell.setBackground(null); // Reset to default  
        }  
      }  
    }  
  }  
}
```

2. Calculate Total and Average

- Add columns: and
- Use script to compute values (no formulas)

```
function calculateTotalAndAverage() {  
  const sheet = SpreadsheetApp.getActiveSpreadsheet().getActiveSheet();  
  const dataRange = sheet.getDataRange();  
  const values = dataRange.getValues();  
  
  // Add headers if not already present  
  const headers = values[0];  
  if (!headers.includes("Total")) {
```

```

    sheet.getRange(1, headers.length + 1).setValue("Total");
    sheet.getRange(1, headers.length + 2).setValue("Average");
  }

  // Determine where to start adding total and average
  const totalCol = headers.length + 1;
  const averageCol = headers.length + 2;

  // Loop through each student row (excluding header and last average row)
  for (let i = 1; i < values.length - 1; i++) {
    const row = values[i];
    const scores = row.slice(1, 6); // Subjects are in columns 2 to 6

    // Compute total and average
    const total = scores.reduce((sum, score) => sum + (typeof score === 'number' ? score : 0), 0);
    const average = total / scores.length;

    // Set the computed values in the new columns
    sheet.getRange(i + 1, totalCol).setValue(total);
    sheet.getRange(i + 1, averageCol).setValue(Math.round(average * 100) / 100);
  }

  // Optional: Bold the header row
  sheet.getRange(1, 1, 1, totalCol + 1).setFontWeight("bold");
}

```

3. Flag Below-Average Students

- Calculate class average
- Add column → Mark “Yes” if below average

```

function flagBelowAverageStudents() {
  const sheet = SpreadsheetApp.getActiveSpreadsheet().getActiveSheet();
  const dataRange = sheet.getDataRange();
  const values = dataRange.getValues();

  const headers = values[0];
  const totalCol = headers.indexOf("Total");
  const averageCol = headers.indexOf("Average");

  // Add "Below Average" column header if it doesn't exist
  let belowAvgCol = headers.indexOf("Below Average");
  if (belowAvgCol === -1) {
    belowAvgCol = headers.length;
    sheet.getRange(1, belowAvgCol + 1).setValue("Below Average");
  }
}

```

```

const studentAverages = [];

// Collect averages of all students (excluding header and final average row)
for (let i = 1; i < values.length - 1; i++) {
  const avg = values[i][averageCol];
  if (typeof avg === 'number') {
    studentAverages.push(avg);
  }
}

// Compute class average
const classAverage = studentAverages.reduce((sum, val) => sum + val, 0) /
studentAverages.length;

// Flag below-average students
for (let i = 1; i < values.length - 1; i++) {
  const avg = values[i][averageCol];
  if (typeof avg === 'number' && avg < classAverage) {
    sheet.getRange(i + 1, belowAvgCol + 1).setValue("Yes");
  } else {
    sheet.getRange(i + 1, belowAvgCol + 1).setValue("");
  }
}

// Optional: Bold header row
sheet.getRange(1, 1, 1, belowAvgCol + 2).setFontWeight("bold");
}

```

Summary:

Though the above mentioned reasons i couldnt get the appscript extension on my google sheet but i have learnt so much before this i dont know anything about this appscript function and the vibe platform make it easier for me to learn and with quizzes i get my learning checked.