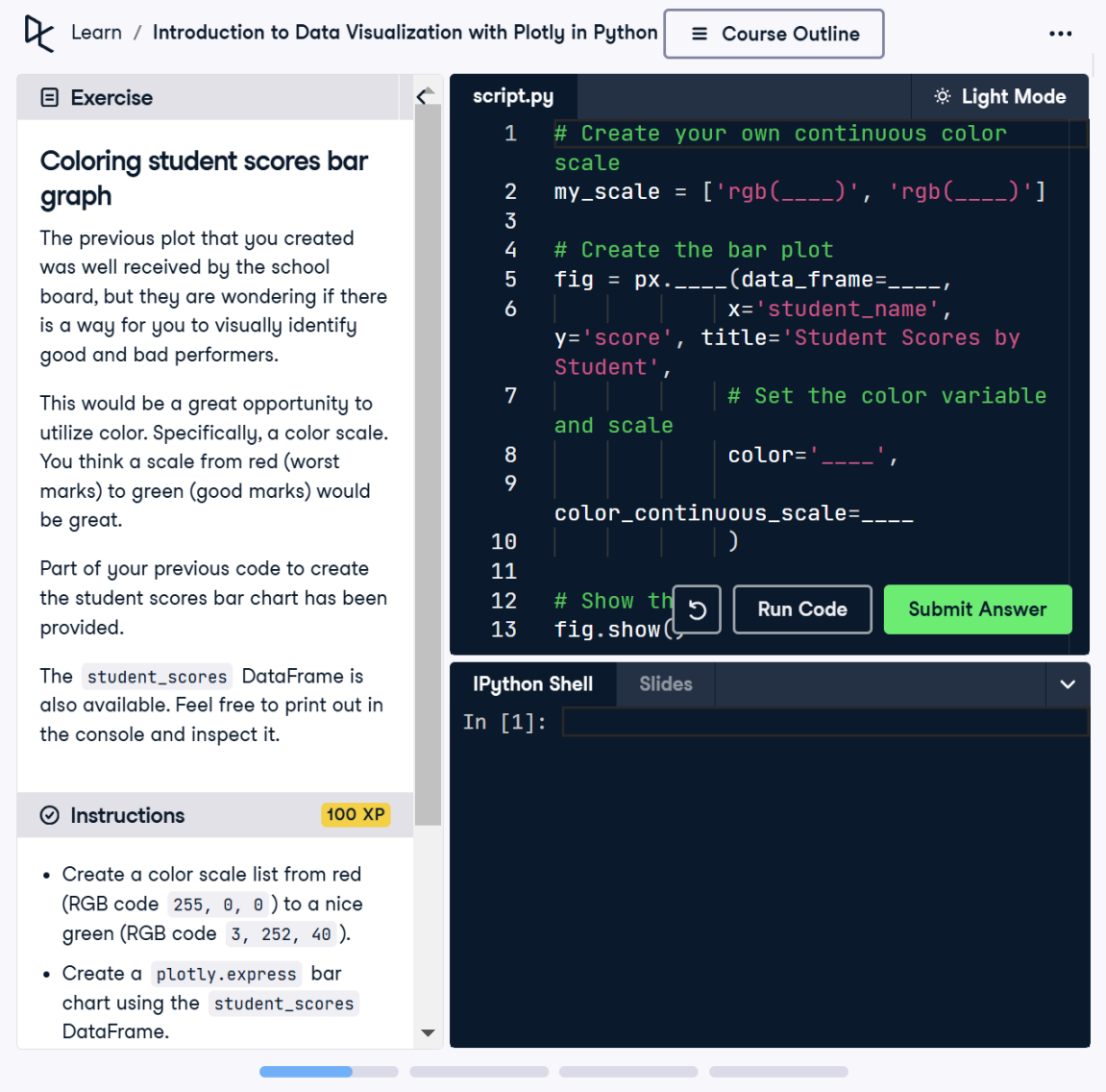
Coloring Student Scores Bar Graph



Question:

The previous plot that you created was well received by the school board, but they are wondering if there is a way for you to visually identify good and bad performers.

This would be a great opportunity to utilize color, specifically a color scale. You think a scale from red (worst marks) to green (good marks) would be great.

Instructions:
1. Create a color scale list from red (RGB code 255, 0, 0) to green (RGB code

3, 252, 40).
2. Create a `plotly.express` bar chart using the `student_scores` DataFrame.
3. Use the `color` parameter to set the score and apply the continuous color scale.
4. Display the plot using `fig.show()`.

Explanation of the Question:

This task involves creating a bar chart of student scores and adding a continuous color scale to visually represent the performance of students. The `color` parameter is set to `score`, and the color scale goes from red (worst scores) to green (best scores).

Answer:

```
# Create your own continuous color scale
my_scale = ['rgb(255, 0, 0)', 'rgb(3, 252, 40)']

# Create the bar plot
fig = px.bar(
    data_frame=student_scores,
    x='student_name',
    y='score',
    title='Student Scores by Student',
    # Set the color variable and scale
    color='score',
    color_continuous_scale=my_scale
)

# Show the plot
fig.show()
```

Explanation of the Answer:

The code creates a continuous color scale `my_scale` from red to green. The `color` parameter is set to `score` to apply the color scale to the student scores. The `data_frame` is the `student_scores` DataFrame, with `x` as student names and `y` as their scores. The chart provides a visual representation of scores with color indicating performance.