**Correlation Coefficient and Scatter Plotting**

A fitness trainer collected data on Daily Calorie Intake, Exercise Duration, and BMI (Body Mass Index) for a group of individuals.

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| Daily Calorie Intake | Exercise Duration | BMI (Body Mass Index) |
| 2000 | 60 | 25 |
| 2200 | 50 | 26 |
| 2500 | 30 | 28 |
| 1800 | 90 | 23 |
| 2300 | 45 | 27 |
| 2600 | 20 | 30 |
| 2100 | 75 | 24 |
| 1900 | 95 | 22 |
| 2700 | 15 | 31 |
| 3000 | 10 | 33 |

1. Create scatter plots for the following pairs of variables:

* Daily Calorie Intake vs. BMI
* Exercise Duration vs. BMI
* Daily Calorie Intake vs. Exercise Duration

1. Calculate the Pearson correlation coefficient for each pair and interpret the results.
2. Based on the data, discuss whether consuming more calories leads to a higher BMI. How does exercise duration affect BMI?