# P06 Sample Solution Report – Simple Charts

## Overview

This report summarises the methodology and key findings for the practical. All computations are based on the provided synthetic dataset.

### Dataset Snapshot

Category Value1 Value2  
Category B 33.06 -5.31  
Category A 39.93 9.05  
Category C 48.19 -3.72  
Category B 61.62 -0.44  
Category B 35.60 1.06

### Summary Statistics

* Value1\_mean: 50.64
* Value1\_median: 50.08
* Value1\_mode: 49.30
* Value1\_var: 107.13
* Value1\_std: 10.35
* Value2\_mean: 37.14
* Value2\_median: 37.40
* Value2\_mode: 7.75
* Value2\_var: 517.85
* Value2\_std: 22.76

### Correlation Matrix

Value1 Value2  
Value1 1.000000 -0.006886  
Value2 -0.006886 1.000000

### Interpretation

The bar chart shows which categories have higher average values. The line chart reveals the trend in Value2 over the observation order. The histogram indicates how Value1 is distributed across all observations.

### Validation Tips

Ensure that the scales on the charts are appropriate and that the number of bins in the histogram is neither too high nor too low.