**in conclusion:**

**Correlation analysis of project lang class level**

**For Metric 1 Statement Coverage and Metric 6 change proneness (a total of 126 sets of data)**

**Pearson correlation coefficient is -0.0544**

**Spearman correlation coefficient is 0.0437**

**For Metric 2 Branch Coverage and Metric 6 change proneness (a total of 108 sets of data)**

**Pearson correlation coefficient is 0.0902**

**Spearman correlation coefficient is 0.0541**

**Correlation analysis of project codec class level**

**For Metric 1 Statement Coverage and Metric 6 change proneness (60 data sets in total)**

**Pearson correlation coefficient is -0.0761**

**Spearman correlation coefficient is -0.2257**

**For Metric 2 Branch Coverage and Metric 6 change proneness (47 data sets in total)**

**Pearson correlation coefficient is -0.0734**

**Spearman correlation coefficient is -0.0692**

**Correlation analysis of project collections**

**For Metric 1 Statement Coverage and Metric 6 change proneness (a total of 270 sets of data)**

**Pearson correlation coefficient is -0.0237**

**Spearman correlation coefficient is -0.1172**

**For Metric 2 Branch Coverage and Metric 6 change proneness (a total of 206 sets of data)**

**Pearson correlation coefficient is -0.0245**

**Spearman correlation coefficient is -0.2350**

**Correlation analysis of project configuration class level**

**For Metric 1 Statement Coverage and Metric 6 change proneness (a total of 186 sets of data)**

**Pearson correlation coefficient is 0.0404**

**Spearman correlation coefficient is -0.1473**

**For Metric 2 Branch Coverage and Metric 6 change proneness (a total of 143 sets of data)**

**Pearson correlation coefficient is -0.0031**

**Spearman correlation coefficient is -0.2359**

**Correlation analysis of project jfree class level**

**For Metric 1 Statement Coverage and Metric 6 change proneness (a total of 524 sets of data)**

**Pearson correlation coefficient is 0.0328**

**Spearman correlation coefficient is -0.0880**

**For Metric 2 Branch Coverage and Metric 6 change proneness (a total of 428 sets of data)**

**Pearson correlation coefficient is 0.0694**

**Spearman correlation coefficient is 0.0935**