Task-3: Comparison report for accuracy, precision, F-measure and Recall.

|  |  |  |
| --- | --- | --- |
| **Value** | **Naive Bayes Method** | **Support Vector Method** |
| Accuracy on test part | 96.67 | 97.00 |
| Precision value for-0 | 1.00 | 1.00 |
| Precision value for-1 | 0.94 | 1.00 |
| Precision value for-2 | 0.94 | 0.94 |
| F- Measure Value for -0 | 1.00 | 1.00 |
| F- Measure Value for -1 | 0.94 | 0.97 |
| F- Measure Value for -2 | 0.94 | 0.97 |
| Recall value for-0 | 1.00 | 1.00 |
| Recall value for-1 | 0.94 | 0.94 |
| Recall value for-2 | 0.94 | 1.00 |

From the above results we conclude that Support vector method provides more accurate results for given data set compared to Naïve Bayes method. Hence SVM is more efficient in case of Accuracy, F-measure and Recall values.