

## **Abstract**

*Information Retrieval System (IRS) is part of the computer science which connected with an information collection from documents that is based on its content. The proces it self could be describe as a process to gathered a relevant document from its collection through a search query that has inputed by the users.*

*One of the approaches would be using word indexing and phrase indexing. By word indexing the terms stressed on each words that availble within the document it self, while for phrase indexing the terms stressed on the phrase on each sentences. Another approaches would be swapping or exchanging the models that is used in the IR. Whereas in probabilistic model, IRS would count/examine the chances if element indexing within document.*

*In an implementation of word indexing and phrase indexing on the probabilistic model would create a different output value performance. Phrase indexing is not always assign better performance than word indexing because imprecise use of phrase at one particular document influence the relevant value of document to query. Others, sum of term from each indexing method also influence the relevant value of document. At this final duty, word indexing to assign better performance than phrase indexing.*

**Key Words:** *information retrieval, word indexing, phrase indexing, probabilistic model, performance.*