

Universiti Teknologi MARA

**The Implementation of Forward Chaining
Algorithm in Calculating Inheritance Property
Based on *Faraid* Law**

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STUDENT'S DECLARATION

I certify that this report and the research to which it refers are the product of my own work and that any idea or quotation from the work of other people, published or otherwise are fully acknowledged in accordance with the stand referring practices of the discipline.



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ABSTRACT

Faraid is known as the Islamic Inheritance Law, which is a part of the Islamic Law that deals with the distribution of a deceased's properties among his or her heirs in accordance with what Allah S.W.T. defined in the *Quran*. Every *Muslim* should know how to manage the assets. However, the problems that occur to practice the *Faraid* among Muslim is the beneficiaries do not really understand the concept of *Faraid* that may lead to misunderstanding about *Faraid* distribution and have narrowed its application that will make it unworkable. Therefore, the purpose of this study is to facilitate the use of Forward Chaining Algorithm to calculate *Faraid* based on inheritance division. This study involves Muslim people and it is focusing on the calculation of the distribution of assets among eligible heirs through the use of *Faraid* law. The distribution of properties is solved using Python Programming Language and also will verify using Inheritance Calculator Mobile Application. The findings indicate that all rules that has been tested is similar with manual calculation and this shows that the algorithm is work and the objective has been achieved successfully.

Keywords: Deceased's properties, *Faraid*, Forward Chaining, Qualified heirs

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