ABSTRACT

The basic purpose of antivirus is to detect any viruses on computer system. Broadly speaking, virus included in the list of Malware, that means malicious programs. Not only viruses, malware can also appear in the form of spyware, worms, keyloggers, etc. The way of working of antivirus generally similar. Only the detection technique and accuracy are different. Antivirus will read bytes in every file in the process, and calculating the value of checksum files. This checksum value is used as a reference for an antivirus to recognize virus. The process of checking files by matching checksum to determine the virus which relies only on database no longer effective. This is caused by the manipulation made by the virus itself and become invisible to database. Therefore, antivirus need to use innovative method. One of the method, that use several approaches to detect suspicious files as known as Heuristic.

This Final Assignment explain and analyze regarding implementation of ArrS heuristic into designd antivirus. ArrS heuristic can detect one of typical character of virus, that is *autorun*. This Antivirus use Visual Basic 6.0 and Microsoft Windows Operating System.

Test result show that the accuracy of ArrS heuristic reached 89% in detecting virus that contains autorun. Hopefully with this design and analyze, system protection from virus threads can be more efficient.

Keywords   : Antivirus, Heuristic, Checksum, ArrS.