

Computation of Easter Sunday by Java Programming

Numerical Analysis

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Abstract

The purpose of the project is to acquaint the student with the JAVA programming language. JAVA is becoming the most dominant language because it is platform independent, it can run applications in the internet, its virtual machine can easily download a compiled program and run it and it supports object-oriented programming.

The concept of algorithm is very fundamental and will be covered extensively. The student will study objects, classes and methods in JAVA and be able to write simple to medium difficulty programming problems. The particular problem that the student will study is to compute the date of Easter Sunday. The algorithm invented by the mathematician Carl Friedrich Gauss in 1800 will be followed. The student will write, test and implement a friendly user Java code to calculate the Easter Sunday date for any year that the user might request. Demonstrations of the working Java code will be shown (This research work supported by NSF-HBCU-UP grant #0310328).