Cryptol: Data Structures

Description As with other languages a user can create their own data types. This lesson shows how that can be done. This is only an introduction an does not show some advanced uses of user-defined data types.

Purpose User-defined data types facilitate expressibility and support faster and more accurate prototyping.

Audience This module is intended for:

1 The general public
2 K-12 and college classes on cyber defense
3 preparation for proficiency in the use of tools and a computing environment suitable for the study of cyber defense

Objectives After completing the module:

1 The learner will know how to create user-defined data types
2 The learner will know about some of the built-in data types such as Float
3 The learner will have some experience in choosing a user-defined data type

Keywords type, Float, Rational, property, fox corn chicken puzzle, BMI calculator, Circle, area

Category cybersecurity > education

Delivery java applets and written documentation in pdf format

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Assessment The applets provide the means for experimentation. Questions are asked in the documentation that help with the set up of experiments. The ideas that learners come up with is evidence that the module was successful.

Workflow No particular schedule was established

Environment All materials are contained in a single jar file. The jar file can be run on any computer where java version 14 or higher and some pdf reader such as acroread or evince are available. The jar file may be executed in the cyber range or learners may download the jar file (which is considered to be an executable file) and run it on their personal computers.