

# ICP 1023 OO Programming in Java Laboratory 1 - Revision

School of Computer Science, Bangor University

## **Laboratory 1: Aims and Objectives**

#### **▶** Aims

▶ To revise fundamental concepts from ICP 1022

#### Objectives

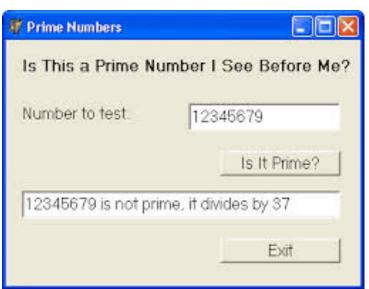
- Implement simple algorithms in Java
- Use methods to structure program solutions
- Use library methods to solve problems (e.g. random number generation)
- Access data stored in files



## What is an Algorithm?

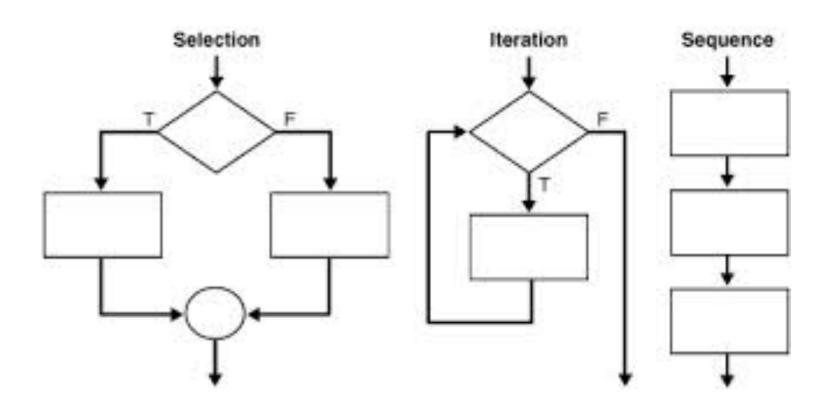
An unambiguous, executable, and terminating specification of a way to solve a problem.

Big Java: Late Objects
Glossary





### **Control Constructs**





## Stepwise Refinement

Break a big task into smaller tasks

- Map the smaller tasks to Java
- Stepwise refinement is a heuristic not an algorithm

