



# How Computers Are Programmed

## OBJECTIVES

- ▶ Understand how data and instructions are represented inside the computer.
- ▶ Understand the basics of the binary numbering system.
- ▶ Understand the differences between high- and low-level computer languages and the advantages of each.
- ▶ Understand the roles of assemblers, interpreters, and compilers.
- ▶ Understand the role of an operating system.
- ▶ Understand and be able to describe the steps in the programming process.