Computer
ECE 001

Benha University

Computer Systems Engineering
Electrical Engineering Department

Faculty of Engineering
(at Shoubra)

Sheet 0

1. Give a definition/an example for each of the following:
   a) Algorithm, Program, Programming, Software, Hardware
      Section 0.1 (Page 2 starting from "We begin with the most fundamental ..." to the end of the page)
   b) Gear based Computing Machine
      Section 0.2 (Page 4 starting from "In the time period after the Middle Ages ..." to the end of the paragraph)
   c) Data Storage/Representation Method
      Section 0.2 (Page 5 starting from "The idea of communicating an algorithm via holes ..." to "(or cardboard).")

2. Give a brief description of one of the early computing devices.
   Section 0.2 (Page 4 starting from "Today's computers have an extensive ..." to the end of the paragraph)
   Figure 0.3

3. Give a brief description of one of the early desktop computers.
   Section 0.2 (Page 7 starting from "A major step toward popularizing ..." to the end of the paragraph)
   or
   Section 0.2 (Page 8 starting from "In 1981, IBM introduced its first ..." to the end of the paragraph)

4. Demonstrate the central role of algorithms in computer science.
   Section 0.3 (Page 10 starting from "Today, computer science has established ..." to the end of the page)
   Figure 0.5