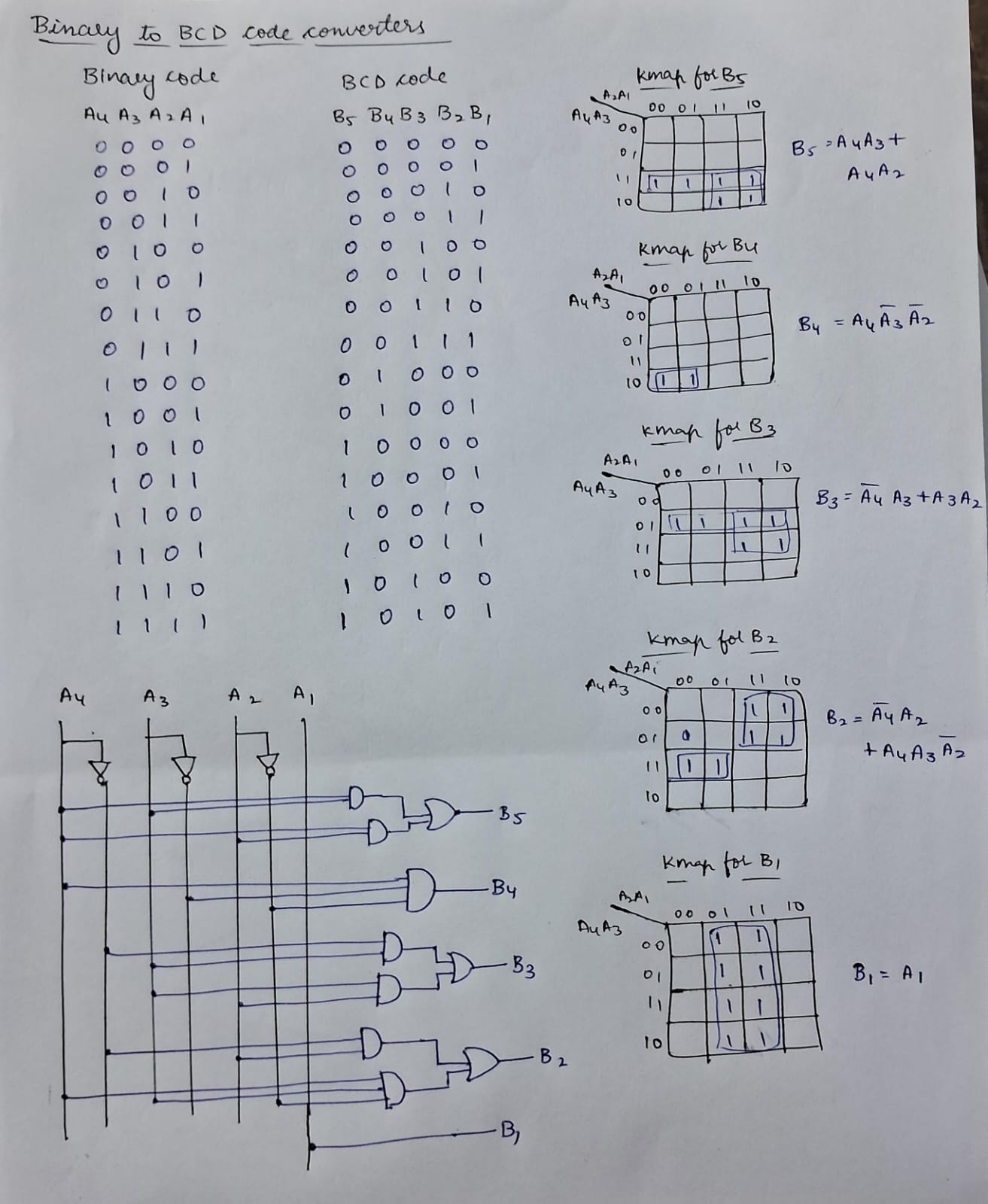
By Sri Pranathi Challagolla

**Code Converters:**

* Code converters are combinational circuits that change data from one binary code to another.
* They are used for compatibility between systems, error reduction, and display purposes.
* Common types: Binary–Gray, Gray–Binary, Binary–BCD, BCD–Binary, BCD–Excess-3,

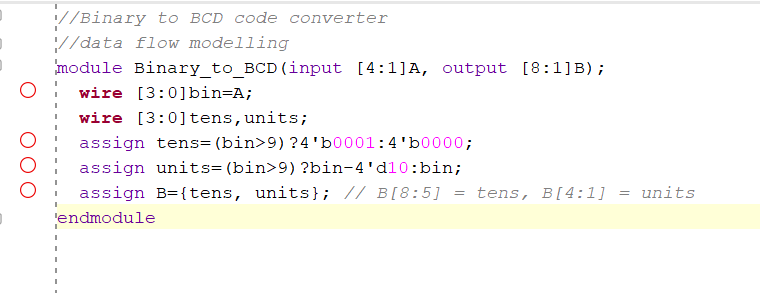
Excess-3–BCD.

**1.Binary to BCD code conversion:**



**Implemented Binary to BCD code converter:**

**Design:**

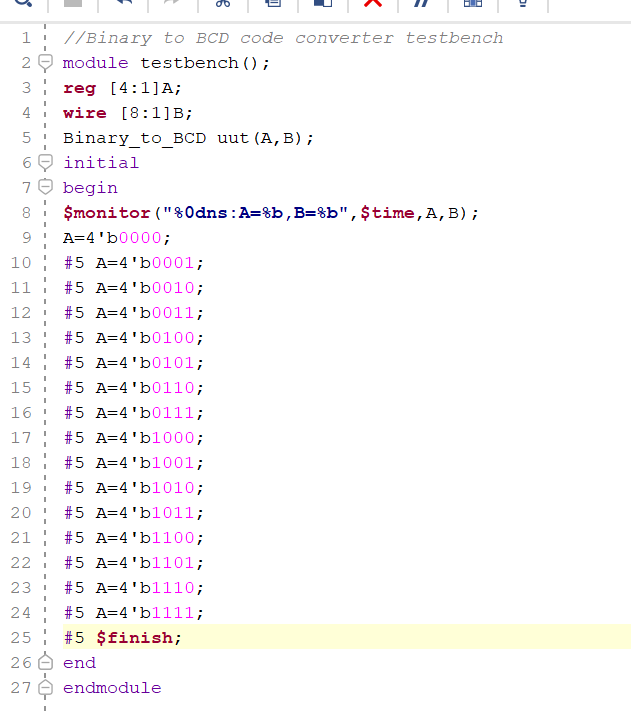
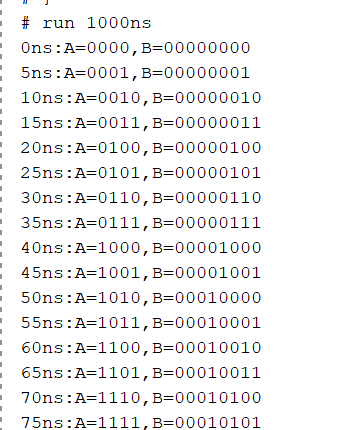
 A screenshot of a computer

AI-generated content may be incorrect.

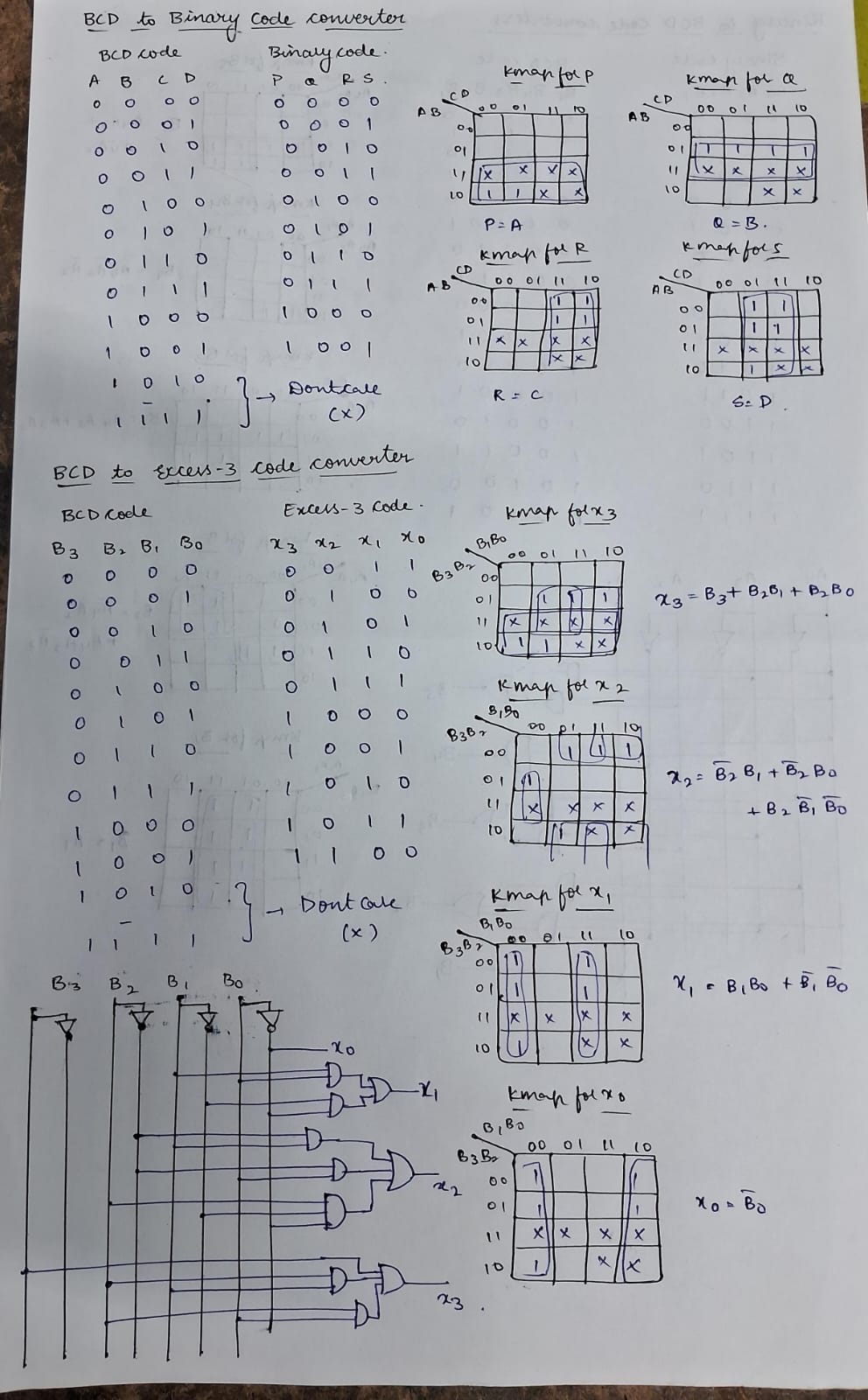
A screenshot of a video game

AI-generated content may be incorrect.

**Testbench:**

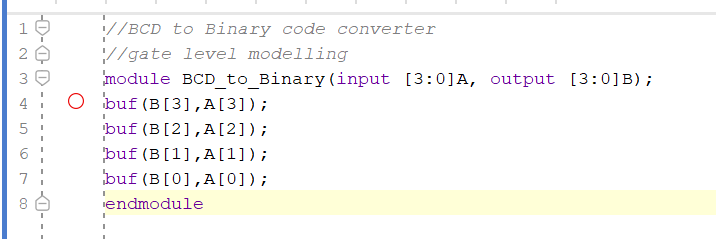
 

**2.BCD to Binary code conversion:**



**Implemented BCD to Binary code converter:**

**Design:**

 A black and green arrow with a green line

AI-generated content may be incorrect.

**Testbench:**

A screenshot of a computer program

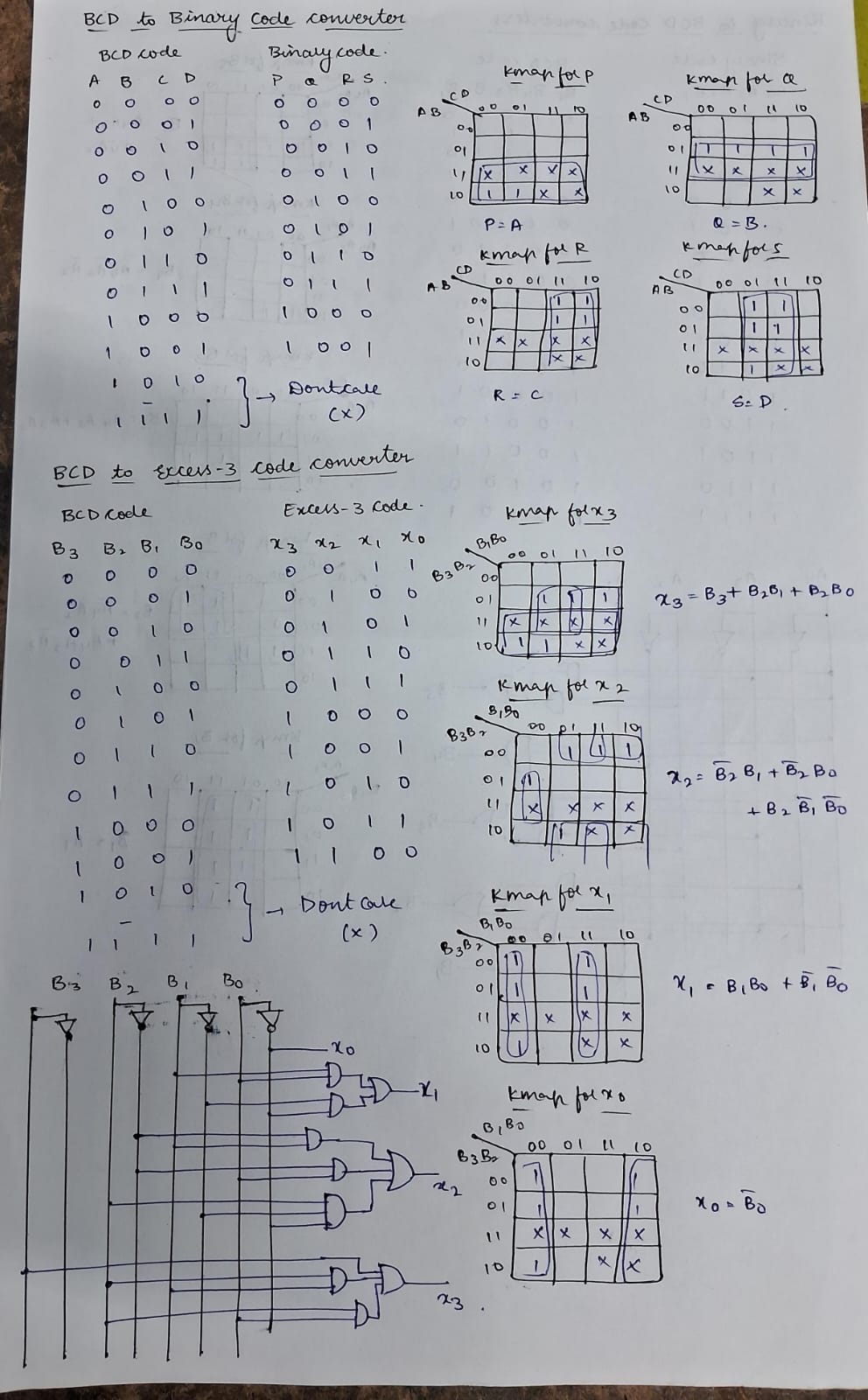
AI-generated content may be incorrect. A screenshot of a computer program

AI-generated content may be incorrect.

A screenshot of a phone

AI-generated content may be incorrect.

**3.BCD to Excess3 code conversion:**

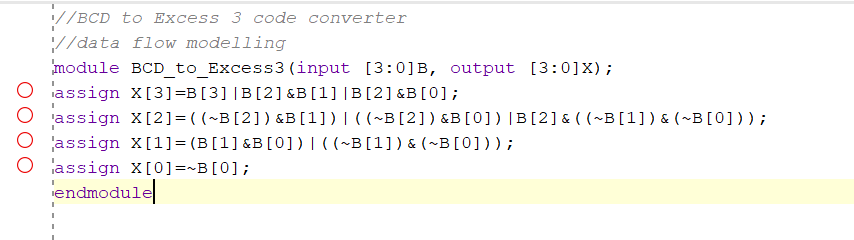


A diagram of a computer

AI-generated content may be incorrect.

**Implemented BCD to Excess3 code converter:**

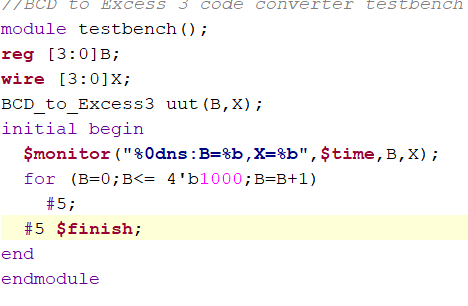
**Design:**



A screenshot of a computer

AI-generated content may be incorrect.

**Testbench:**

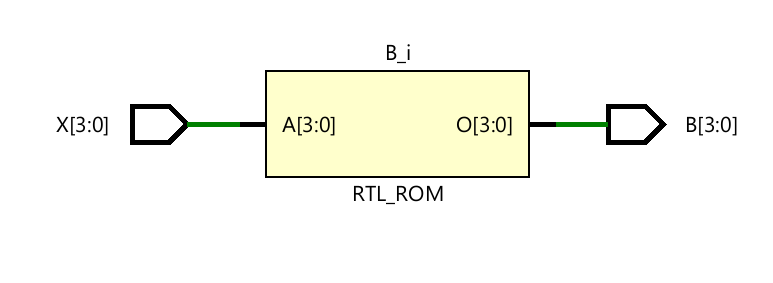
 A screenshot of a computer code

AI-generated content may be incorrect.

**4. Excess3 to BCD code conversion:**

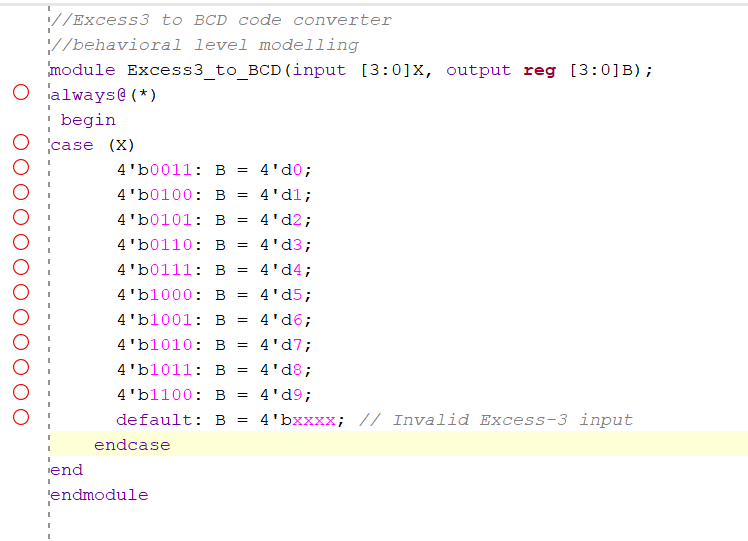
A paper with text and numbers

AI-generated content may be incorrect.



**Implemented Excess3 to BCD code converter:**

**Design:**



**Testbench:**

A screenshot of a computer program

AI-generated content may be incorrect. A screenshot of a computer code

AI-generated content may be incorrect.

