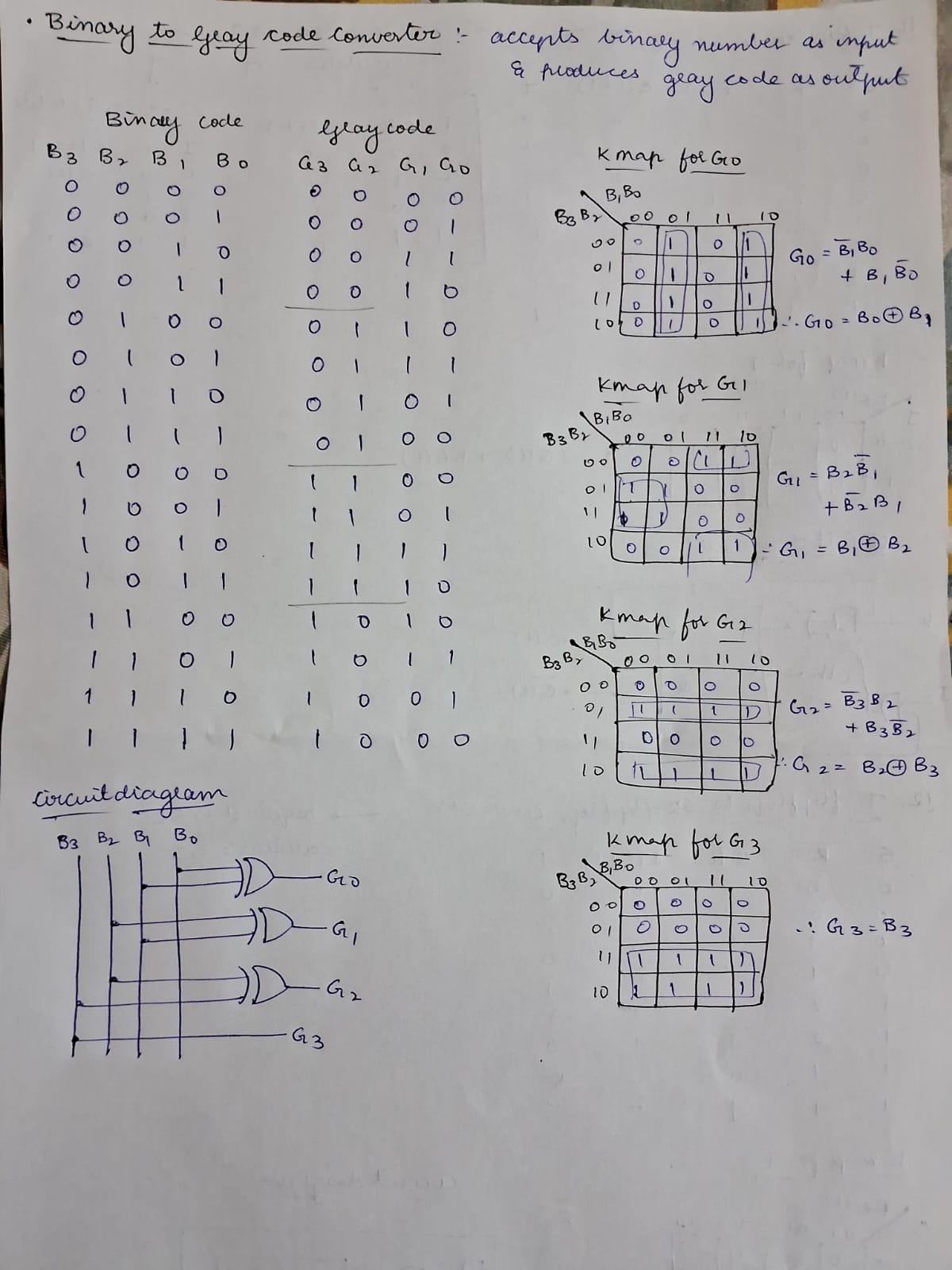
By Sri Pranathi Challagolla

**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 Gray code conversion:**



A diagram of a computer

AI-generated content may be incorrect.

**Implemented Binary to Gray code converter:**

**Design:**

A screenshot of a computer code

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

**Testbench:**

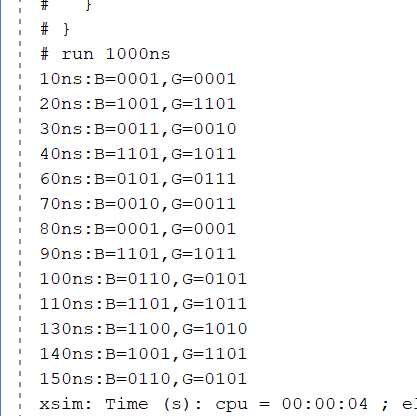
A screenshot of a computer program

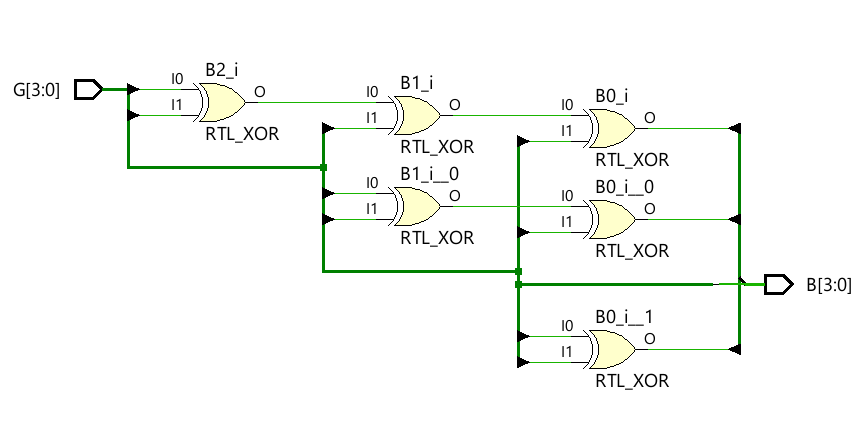
AI-generated content may be incorrect.

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

A paper with writing on it

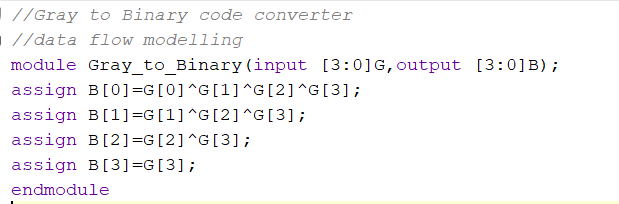
AI-generated content may be incorrect.





**Implemented Gray to Binary code converter:**

**Design:**



**Testbench:**

