Assignments-04: Testbenches

Write testbench for the following circuits (Use \$display and \$monitor at appropriate places)

- 1. 4-bit Binary to Gray Code Converter
- 2. 8:3 Priority Encoder
- 3. 3:8 Decoder
- 4. 4:1 Multiplexer
- 5. 1:4 Demultiplexer
- 6. 2-bit Magnitude Comparator (A > B, A == B, A < B) (Extent it upto 4 bit comparator)
- 7. Adder-Subtractor
- 8. 4-Bit Multiplier
- 9. BCD Adder
- 10. Barrel Shifter
- 11. Arithmetic and Logical Unit (ALU)