Seven Segment Decode Logic:

```
case(msd)
4'b0000: begin
segments[13:7] =
7'b0111111;
end
4'b0001: begin segments[13:7]
= 7'b0000110;
end
4'b0010: begin segments[13:7]
= 7'b1011011;
end
4'b0011: begin segments[13:7]
= 7'b1001111;
end
4'b0100: begin segments[13:7]
= 7'b1100110;
end
4'b0101: begin segments[13:7]
= 7'b1101101;
end
4'b0110: begin segments[13:7]
= 7'b1111101;
end
4'b0111: begin segments[13:7]
= 7'b0000111;
end
4'b1000: begin segments[13:7]
= 7'b1111111;
end
4'b1001: begin segments[13:7]
= 7'b1101111;
end
default: begin segments[13:7] =
7'b0;
end
endcase
```

Note: Although the least significant digit is not shown here. The cases are identical