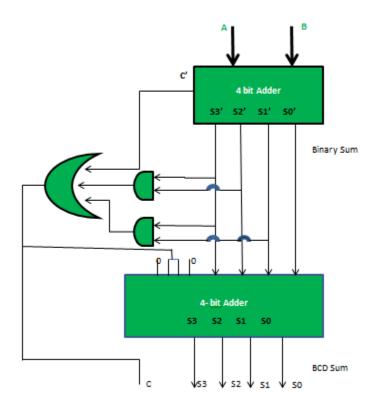
Name:				

Registration: \_\_\_\_

Design a BCD adder using as building block the 4-bit binary adder shown below. Use the provided block diagram and skeleton file to implement the BCD adder.

```
module add4 (C, S, A, B);
    output [3:0] S;
    output C;
    input [3:0] A, B;
    assign {C, S} = A + B:
    endmodule
```



```
module bcd (C, S, A, B);
  output [3:0] S;
  output C;
  input [3:0] A, B;
  //Write your code here

endmodule
```