Assigns
- Write a

Write a simulation function for 1bit ALU(); e.g., ALU\_1bit (a, b, Binv, cin, OP, &cout, &result) - write a simulation func for 16bit ALU() Binv of with ALU16 (A, B, Binv. op)

Binv of with ALU16 (A, B, Binv. op)

Binv of with ALU16 (A, B, Binv. op)

Feturn result; - but main () E prompt and get 16-bit# for MD; prompt and get 16-bit# for MQ; of cutx product = Booth mult (MD, MQ); display product; intx Booth-Mult (MD, Ma) E cycle-counter €41111"; AC = "00 --- 00"; broduct MP < parameter MD; MQ <- parameter MQ; MQ1 ( Ø) for (1~16) [ if (MQo/NQ\_1 == ΦΦ) AC (00-00") "10" [ AC = ALU-16 (A, B, Binv, op); —//AC = AC+Φ ACE ALUIG (A, B, Binv, op); - MACKACHMD else if (MQO/MQ-1 == 101) else if ( == 10) AC MD & 50° Lelse if ( 0 == 11) -display contents of MD, Ac, MD, MD, and Cycle counters - shift Ac/Ma/Ma, >1 > Marith shift -display contents of MP, AC, MQ, MQ-1, Cycle Gunter; 13 - updato cycle counter: return product; // AC/Ma