BOOTHS ALGORITHM

EXP NO: 34

AIM:To write a C program to Booths Algorithm.

ALGORITHM

- 1. Initialize the multiplicand and multiplier, and set up the product register (P), accumulator, and a flag (Q-1).
- 2. Check the last two bits (Q and Q-1):
 - If Q and Q-1 are 01, add the multiplicand to the product.
 - If Q and Q-1 are 10, subtract the multiplicand from the product.
- 3. Perform arithmetic right shift on the product and Q, including the Q-1 bit.
- 4. Repeat steps 2 and 3 for the number of bits in the multiplier.
- 5. Output the final value in the product register as the multiplication result.

PROGRAM/OUTPUT SS:

