**3 stage pipeline for AND, OR, NAND of two numbers**

**Program :**

#include <stdio.h>

int main()

{

unsigned char a = 5, b = 9;

printf("a = %d, b = %d\n", a, b);

printf("a&b = %d\n", a & b);

printf("a|b = %d\n", a | b);

printf("a^b = %d\n", a ^ b);

printf("~a = %d\n", a = ~a);

printf("b<<1 = %d\n", b << 1);

printf("b>>1 = %d\n", b >> 1);

return 0;

}

OUTPUT:

a = 5, b = 9

a&b = 1

a|b = 13

a^b = 12

~a = 250

b<<1 = 18

b>>1 = 4