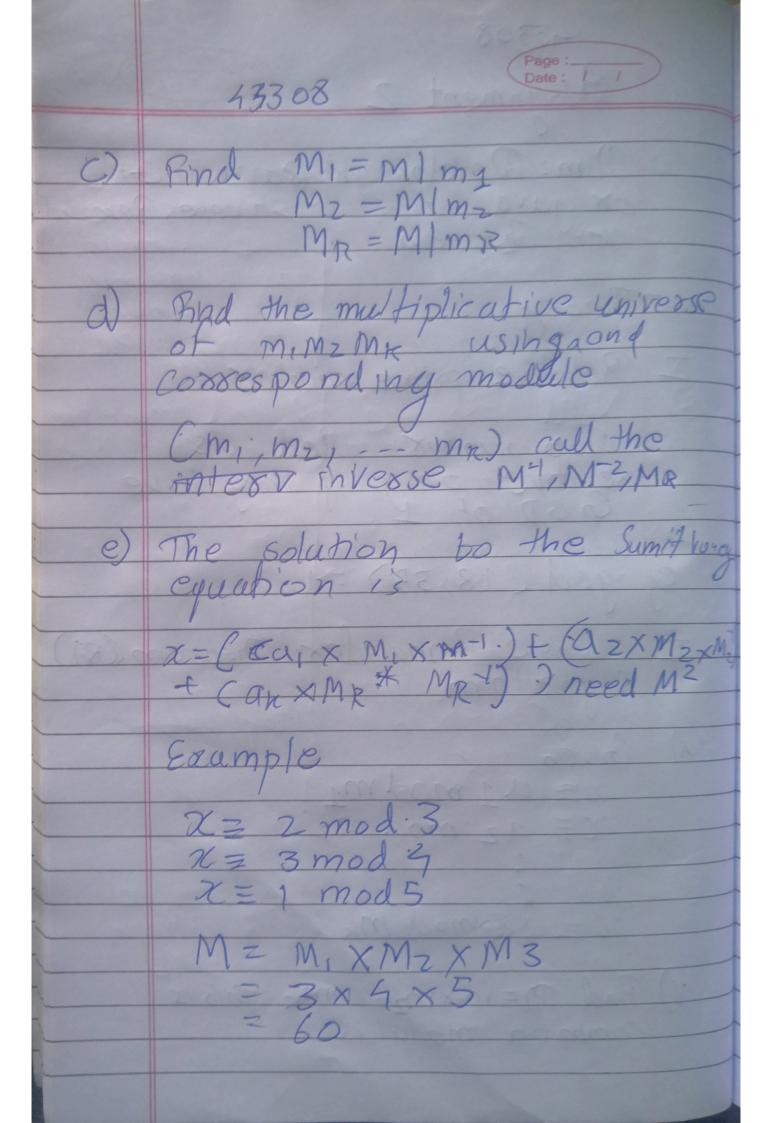
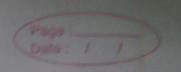
43308 Assignment 2 Aim: Develop program in C++
or java on program in C++
ex Theorem. Chinese Remard. Theory I Relative prime number Two number called as relative only if they have GOD OF I. eg gcd (18,35) =1 I Chinese Remainder Theorem (8) Algorithm Gruch x= d1 mod m1 CE az mod Mz DE = Or mod mk V Find M=mixmz. mr this is Common modulus





M= 60 - 20

 $M_{2} = 60 = 15$

 $m_3 = \frac{60}{5} = 12$

Multiplicative inverse

20x; = 1 (mod 3)

 $2xi = 1 \mod 3$ $x_1 = 2$

15 x 2 (mod 4)

3/(2 (mod4)

1273 \$ (mod 52)

 $2 \times 3 \pmod{5} = 1$

2 = (20 × 2 * 7 + 15 × 3 × 3 + 12 × 3 × 1) mod 60

x=1 (80 +135 + 36) mod 36

conclusion

remainder theorem to calculate

Value of X