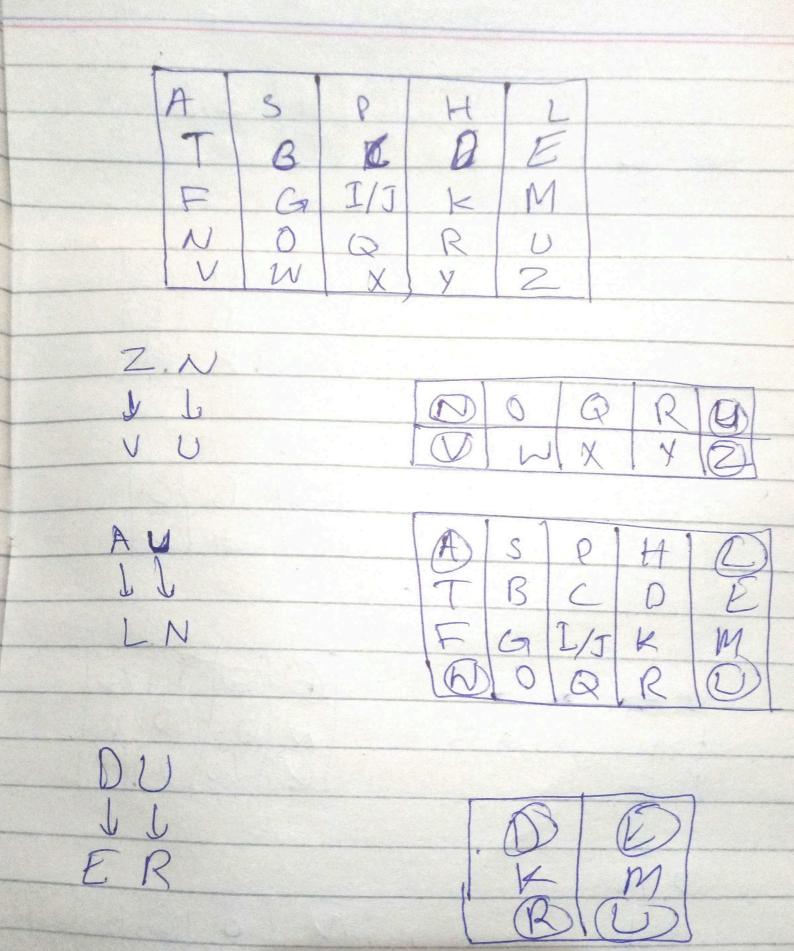
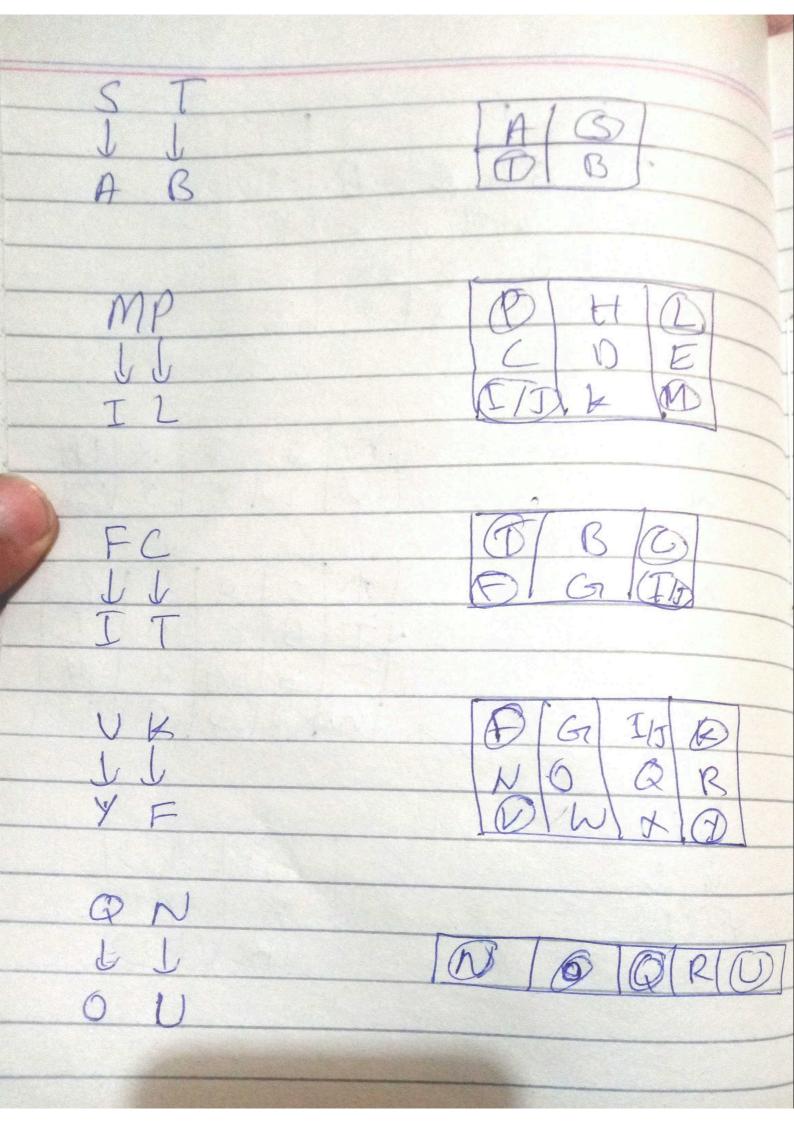
Ruestion # 1 a 27 mod 11 Multiplicative inverse? 27 xx 2 1 (mod 11) We have for Mrs $27 + 5 = 13\overline{5}$ (27+5) mod 11 2 (35) mod 4 [(27 mod U) x (5 mod U)] mod U= 3 [5 x5] mod 11 2 3 25 mad 11 = 3 so the solution will be

Additive muerse: 27 + x = 0 mod 4 27+6233 (27+6) mod 11 2 33 mod 4 (27mod 11) + (6 mod 11)] mod 11=0 (5 + 6) mod U 20 0 2 0 So 6 15 additive inverse. 3) 102 mod .21 102 + x 21 (mod 4) This will not have any solution because 102 and 4 are not co prime so there ged will be (102,4) 22

Additive inverse. 102 +x 20 (mod 4) (102 + 2 = 104 (102 + 2) mod 4 = 104 mod 4 (102 mod 4) + (2 mod 4)) mod 4 = 0 [2+2] mod 4 20 So 2 15 additive invene Question # 2 Play fair cypher legword = Asphalt ZNAUDUST MPF FCVKQNRT





Decrypted Tent 15. VULNERABILI. TYFOUND