```
1. a) tang[n] = \frac{\lambda L_H - X [n]}{Z_H} = Y [n]
                                                                                                                                                                                                                                                                                                                                                                            9 9 is negative
                                                          2. XIN] = MH + ZHYEN]
         b) YEnj = YEnj + WEnj r=
        d) X [n+1] = X[n] + D + V[n]; X[1] = 0 with Var(v[n]) = 1
                         C) YEn = \frac{\chi(n) - \chi_H}{Z_H} + WEn = with Var(WEn = ) = Y
                        c) \hat{\chi}^{10}[1] = 0 see algo. 3.] In the book
                      P^{0} E_{1} = 0
f) \quad Loop \quad \widehat{y}^{n} E_{1} = \frac{\chi}{2H}
R^{2} = \frac{\chi}{2H}
R^{2} = \frac{\chi}{2H}
                                                                                                                     Cx,y [n] = P | In] / ZH
                                                                                                                     Cy, y \quad \exists n \exists z \quad \exists r 
                                                                                                                      \frac{1}{\alpha} \left[ \frac{1}{n} \left[ n+1 \right] = \frac{1}{\alpha} \left[ \frac{1}{n} \right] + 0
                                                                                                                     - P| 1 [n+1] = p| 1 [n] + 9
                       h) \Gamma = +\infty \hat{X} \mid ^n [n] = (n-1) \cdot D Kalman gain = 0
                                                                                                                        P|^{n}[n] = (n-1) \cdot q \qquad P|^{n}[n] = P|^{n-1}[n]
                   i) q = +\infty \hat{\chi}/n [n] = \chi_{H} + z_{H} \cdot y [n]
                                                                                                                                  P/n[n] = ZH2Y see question 1
            b) XCN] = XH + ZH · Ytrue In]
                                                      XIN = XH + ZH ( Ttrne [n] + W [n])
                                                      error Sinj- xinj = ZH Winj Var (AX+B) = A Var(x) AT
                                                   error variance Var (x[n] - x[n]) = ZH Var (w[n])
  Kalman recursion
```

inside X [n] with pin [n] recomple X [n] with pin [n]