Home Work 4 (or) False. Rondom Forest Olverage the Var So it has Smaller your (b) False. More weak classifier makes Adapost to cus more efficiently. PPP 9999977FFFFFFFFFFF (c) False, Voriane is Conored, not pias 2 (a)  $\epsilon_t = \sum_{i:y_i \neq he(x_i)} W_{t,i}$   $1 - \epsilon_t = \sum_{i:y_i = he(x_i)} W_{t,i}$ given binary classifier ( weak), we get or I from Sign tune thus: if Yi= he(xi) -BD/Ze else yi + he(xi) Wex1 = We e / Xe Ze = E We, i x e Beyint (Xi)  $= \underbrace{\sum_{i=h \in N_i} W_{i,i} e^{\beta e}}_{N_i = h \in N_i} \underbrace{P_i}_{N_i \neq h \in N_i}_{N_i \neq h \in N_i} \underbrace{P_i}_{N_i \neq h \in N_i}_{N_i \neq h \in N_i}$   $= e^{-\beta t} (1 - \epsilon_t) + e^{\beta t} \epsilon_t$ 





