W37 + Part D) Our assumptions: f(x) =) continous runchion with error E which is like ENN(0,02) These describe our data like $y = f(x) + \epsilon$ y is approximated like $\tilde{y} = X\beta$ Show expectation value for y for given element i: We have our linear regression model: y= XB+E y= model-cutput 12 design matrix B= Vector of regussion coefficients E=error. For a given observation i, we know that element yi is: Xij is the jth predictor for the i-th observation. yi= ≤ xijBj +€