Test 2 Corrections 5.C.) The average difference in lifespen between smokers and non-smokers is 23. 4392 years b.a) Model 3 because it has the f' and adj-R2, weening That the predictors in this model uplain the greatest coefficients are statistically significant at the 0.05 cartidace level. The residual plot shows a random distribution of points over the zero line, maning that there is a very small difference between the observed and Murchall values, 100 7a, Ho: B2 = B3 = 0 Hails of B3 7 b. The fifted visus skelentred plot for model 3 shows The strongest endence for fulfilling. The constant vanare assumption. 8. One would aspect with colliners by with the weight var because bearier whiles would have greater displacement. To do this, we would look at a scatterplat of wight is displacement to check for a linear relationship. If there is a high cordlation (17.27) we may not need to include if it neles the model now complicated. We cald also combine the new var with reight var if they have a strong position linear reletionshy. Additionally, it the new var model has a VIF > 5, we may not need it. We should also compar R2 values the Hu models with and without the new var. I would also check the residual plats for both models to measure for fit wel defermine

if the residuals were more everly dispersel in one nodel over the attern