3. a) 46.8599 6) 50.6675 c) (18, 1177 d) (0,868) e) range = yin, -yi, = 60,174 - >0,030 = 40,144 f) 12,5905 9) ii) the number of Eilemeters driven Tii) the frequency that the number of Eilometers driven appears IV) The heights of each bor represent the frequencies of the number of kilometers driven that in the Interval from the left number to the right number on the x axis. Too example, the height of first bar represent the frequency of the number of tibreters driven in the interval from 200 to 300. They sum to 20, which is the number of S cars. V) Yes because the Wistograms show the distribution of the data by PIS in course notes and the

numbers of Cor S and Cor H, one the same, which weams that both of them are 20, and the intervals on X axis and y axis remain the same for S and H care, and the data in the plot is distance driven for can S and Cor H, this is a good plot to we. h) The distribution of gos consumption of Sis negatively skewed because the part below the median is longer than the part above the median Also, by observation, we get 9 10.75) approximetes 40, and mean approximeter to, and g (0.75) approximeters 54, and so IQR: 9(0.75) - 9(0.75) = 14. Moreover, we get the minimum value is 20, and the maximum value is 60, and so the range = 60-20=40. Also, there exists outliers, unrich equal to 20. i) ii) The explanatory variate is the number of kilometers driven, and the response variable is the gas iii) By using cor (gas S\$km, gas S\$gas) in Rstudio, we get Sample correlation = 1 = 8.9720875 >0. Use this,

and opservation on the scatterplat, we get that there exists positive linear relationship between the two variates distance driven consumed on shown on Thureases, gas increases as shown on the scatterplot and r= 8.9720875 >0.