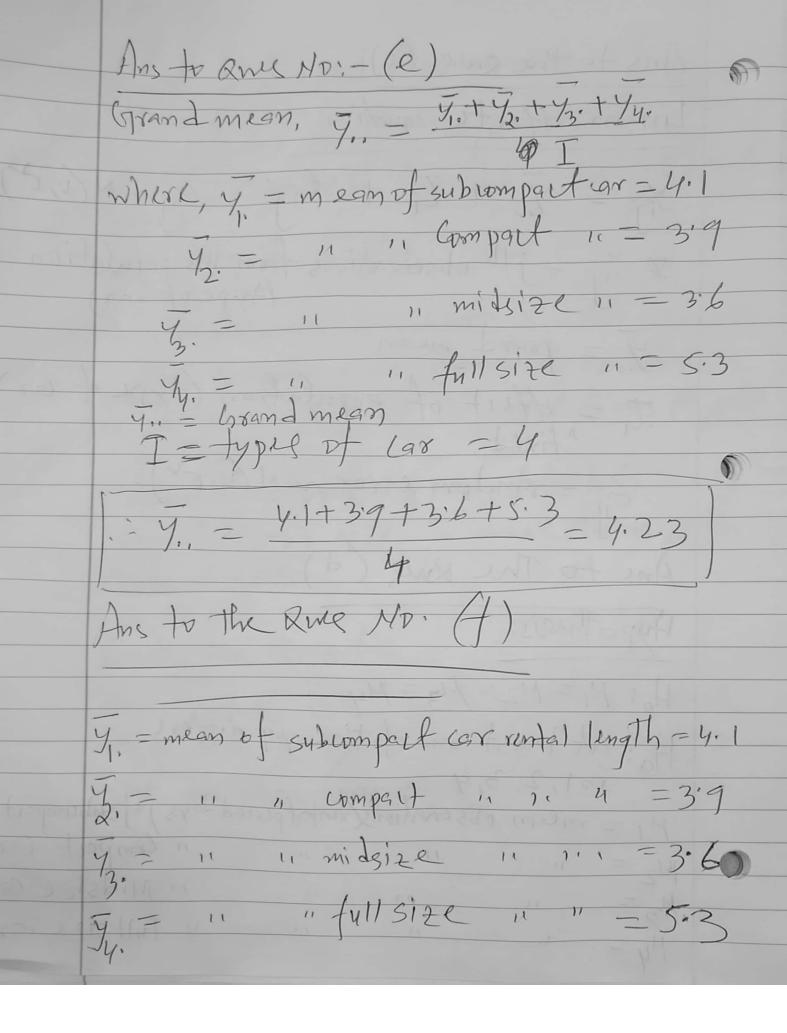
Flipped Hassignment: 07 Mame:
(1) md Ariful Hague Miah (2) Ayodeji Ayoola Date og 120/2 Ansto the Rules (9) This experiment represents a CRD because the sampling order (no. of observations)
is random across all the populations (types
of (ax): Also the types of car (which is
populations) size is more than 2.50
it's a CRD. Ans to the Rues (b) The type of lar is a fixed effect since there are 4 types of car which assigns the discrete property.

Ans to the Rive (c) Linear effects equotion: 40 = 7. + to + tig (1,0) Jij - jth observations from the population (type of car) ti = Afrit of population (type of (0x))

- fixed

Ei = sondom estor ~ N(0,5). Ans to The Ring (d) Hypothisis: Ho: M1 = M2 = M3 = M4

Ha: at least one of the M; differs
1=1,2,3,4



Ans to the Rome ND: (67) MSE= 5SE 5 I(J-1) SSE = 2 5 (Yig - Yi.) = 180.3 (ming exul) $\frac{1}{1000} = \frac{130.3}{4(10-1)} = 5.008$ Ans to the Ques No: (H) $1MST_{6} = \frac{5ST_{6}}{I=1}$ 55 To = J X 3 (40 - 4.) =10 × 1.66 (from excel) = 16.67 = 16.67 = 5.56

Ans to The Rues 40: (I) MSTr & MSE values are approximently same so we alter might it indicates we Ho might not reject. to make final decisions regarding hypothesis. Ang to The Rueg No: (J) F= MST6 = 5.56 = 1.11 Ans worsesponding to the hypothesis in past (d), value of F- statistics is

Ans to the Ruce Ho: (K) Using R, critical value on = 2.866 at -- F-stat < critical value (2.8666) So we fail to reject the Mull hypotheris does not have effect on the length of the rental period.