20/11/24 Implement emigication in first order dogic ALGORITHM Unity (4, 4) Step): 1) (P) or (P) is a variable or a a) If they are identical - setum no e) of may are variable

) vis variable

P, is variable

P, secures in  $\varphi_2$  - return failure 4. doesn't occur in 42 - roturn 43/4 ii) V is vaciable b) 31 neither seturn failure. Step2: 9) perdicate symbols arend -> serumfilme some in 4, 42 Step3: I) no of arguments are different -> setur fallico Step of set substitution set (SURET) to NIL Step 5: For all elements in U a) sall the unity function with it element of 4, and ith element of 4, and Return smult to s l) \$ 5 = FAILURE geturn failure i) Apply S to remainder of both ii) Use Subst function to some it en SURST = (APPEND (5, Subst)) Step6: return BUBST 8tep7: End

Entry the first capenion (e.g. 'P 2 4'): Fo Enter the second expression (e.g., i Pagilise) unification successful! Substitution: ('x': 'a', 'y': 'z'). Enler the plut expression (eg. 'Pxg'): preg Enler the second expression (e.g. 'Pog'): preg The expension rannot be used de la constant de la 321220 a 8 (3 the acres to the second plants 1 to make the prison of man of the e) of neither schoon factorse Depart of perhiate expended quest in square 190 W 18 2000 20 Exps: If no of assimums on Siteman sign of self substitions set (2000) to me expert For our chamerte in the of the with function of the of the achiem swill to c 6) 3) S= FAILURE REPURE LAILURG i) Apply 9 to semainder of both (i) where strong trains is a source of a TERMS TRULES April . LH3 . F 974.