Assignment 4.

- Q.1 Let V be an n-dimensional vector space.

 (et (XIL) be the incidence structure whose points are k-dimensional subspaces & lines are (R+D-dimensional subspaces & Prove that (XIL) satisfies Pasch Axiom.
 - Q.2 Let (x,f) be a combinatorial geometry.

 Let (x,f) be a combinatorial geometry.

 Let (x,f) be a combinatorial geometry.

 Prove that (a) ECF & vk E= vk F (x) E= F
 - (b) F covers E iff ECF & xkF=xkE+1.
 - 5.3 Prove that PGn(F), the projective space over a field F, is a projective geometry.
 - 0.4 Prove that a finite modular grownetry is a union of two flats iff it is a disjoint union of two flats.