a) i) BEGIN Display Train

        read Number of Trains

        Trains = 2

          WILE train <> Number of Trains.

              ReadTrain iD (Train ID)

              Read Location (train ID Location X, Location Y)

              Display Train ID

              Train = Train + 1

    ENDWHILE

  END
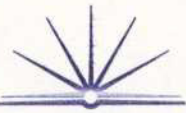
    BEGIN Read Location (Train ID, Location X, Location Y)

       X = Location X

       Y = Location Y

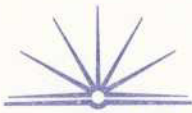   Broadcast Message (Train ID)

       Receive Message (X, Y).

    END.

~~This program~~

BEGIN Display Trains

   Trains=0

END.

P.T.O.

~~This Program will work For 1 Train and if There were No Trains at all because~~

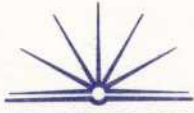ii) This program will NOT work with any number of trains because it is asking to Display Train location ~~without ever~~ before Broadcasting & receiving the Train ID No. and it X,Y, ~~So~~ Location.
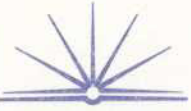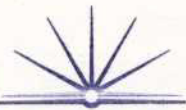
But the program will work with 0 Trains.

iii) I would modify the algorithm to ensure that the software works by replacing the command for the Broadcast of the trains ID no. & X,Y, location below "Read Train ID" command.

b) i) The ethical issues that are involved in this scenario is the fact that that is piracy. The theft of some one elses intellectual property & claimed it ~~for themselves~~. as their own.

(ii) The Management could ensure that the Software Team to carry out their responsibilities as as software developers it to request that all programs that get handed in is to be accepted accompanied with the intelectual Documentation and all documentation leading to its completion.