```matlab
function hostels_new = enCode(hostels_old)
% enCode - converts binary data to an array of dummy variables
% using one-hot-encoding technique to convert all binary
% columns from the table to dummy variables while avoiding
% the dummy variable trap

    cat_table = hostels_old(:,1:5);
    hostels_old = hostels_old(:,6:end);
    newtable = table();
    for i = 1:size(cat_table,2)
        ec = categorical(table2array(cat_table(:,i)));
        ec = table(ec);
        ec = onehotencode(ec);
        newtable = [newtable ec(:,2)];
        for j = 1:size(newtable,2) % 1
            names = ["study_room" "tv_room" "security" "ext_power" "ac"];
            newtable.Properties.VariableNames(j) = names(j);
        end
    end
    hostels_new = [newtable hostels_old];
end
```

```matlab
function hostels_new = toDummy(hostels_old)
% toDummy - transforms categorical features to dummy variables
% using each unique data (n-1) as a column to represent a new column
% of dummy(binary) variables.
% ps: (n-1) unique data because we want to avoid the dummy variable trap

    top = hostels_old(:,1:5); bottom = hostels_old(:,8:end);
    b = hostels_old.beds;
    p = hostels_old.post_code;
    b = categorical(b);
    b = table(b);
    b = onehotencode(b);
    b = b(:,1:end-1);
    p = categorical(p);
    p = table(p);
    p = onehotencode(p);
    p = p(:,1:end-1);
    hostels_new = [top b p bottom];
end
```

```matlab
function [T, residuals] = Metrics(yActual,yPredicted)
%Metrics - Evaluation Metrics
%this code calculates the MAE, RMSE and Rsquared

    residuals = yActual - yPredicted;
    sTotal = yActual - mean(yActual);
    MSE = mean(residuals.^2);
    RMSE = sqrt(MSE);
    MAE = mean(abs(residuals));
    Rsquared = 1 - ( (sum(residuals.^2)) / (sum(sTotal.^2)) );
    sz = [1,3];
    varTypes = {'double','double','double'};
    varNames = {'MAE','RMSE','Rsquared'};
    T = table('Size',sz,'VariableTypes',varTypes,'VariableNames',varNames);
    T(1,:) = {MAE,RMSE,Rsquared};
end
```