**Code**

**Manuscript Title: A robust algorithmic cum integrated approach of interval-valued fuzzy hypersoft set and OOPCS for real estate pursuit**

In the above-mentioned manuscript, the authors have not used any machine learning tools or computer languages based softwares therefore there is no coding involved in the manuscript to design the algorithm. However, the methodological steps, without coding indices, in general template are being presented below that can be executed by any machine learning tool after transformation in codes:

1. Statement of the problem: Consider  as the set of decision makers,  be the alternatives and  be the set of parameters. Then a hypersoft set can be defined as  where  such that each attribute  corresponds to a unique disjoint attribute valued set  Let  then each  is tuple element.
2. Construction of weighted interval valued fuzzy parameter hypersoft set represented in the form of matrix  displayed  where  is linguistic rating assigned by decision maker  the sub-parametric tuple 
3. Calculation of mean difference of each interval of weighted interval-valued fuzzy parameter matrix  by  obtained for each interval 
4. Construction of weighted vector  The elements of weighted vector  can be calculated by utilizing 
5. Construction of fuzzy decision matrix  displayed corresponding to each decision maker 
6. Construction of average interval-valued fuzzy hypersoft decision matrix  using equation   where  represent matrices sum taken for corresponding lower bonds  and corresponding upper bonds  of interval  respectively.
7. Construction of Mean difference of average interval-valued fuzzy parameter matrix  by  for interval 
8. Construction of weighted fuzzy decision matrix 
9. Figuring fuzzy-valued  ideal solution  and fuzzy-valued  ideal solution  They are obtained with the help of fuzzy set theory and the TOPSIS technique;



1. Figuring separation measures  and  for each parameter.
2. Calculation of the nearness of alternatives to the optimal solution 



1. Ranking the preference order.