**Code**

**Manuscript Title: An optimized multi attribute decision making approach to construction supply chain management by using complex picture fuzzy soft set**

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. Considering the essential sets and opinions of decision makers, construct cpFSS , i.e.,



1. Represent the cpFSS  in matrix notation, where and  are the cardinalities of set of attributes and initial space of objects respectively.



Where





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1. Transform the matrix  into core matrix 



1. Split the core matrix  into core matrix for amplitude terms  and core matrix for phase terms  as given below





where  and



where 

1. Compute maximum decision values, minimum decision values  and score values  for each alternative  from matrix. Similarly compute the same values,  and  from matrix  by using the following formulae:











1. Compute mean  by using the following formula:



1. Select the alternative with maximum  as optimal recommendation.