**Experiment Number: 06**

**Problem Statement: Implementation of fuzzy set .**

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# **CLASS: TY(IT) BATCH: 3**

**DATE OF PERFORMANCE: 9/ 11 / 2022**

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**Code-**

import java.util.\*;

import java.lang.Math;

public class lab\_6 {

public static void main(String[] args)

{

float x[]={1,2,3,4,5,6,7,8,9,10};

float memvalue=0.0f, factor;

int gamma=1;

for (int i=0;i<10;i++)

{

factor=gamma\*Math.abs((5/Math.max(x[i],5)-(x[i]/Math.max(x[i],5))));

if (factor==0)

memvalue=1;

if (factor>0 && factor<=1)

memvalue=1-factor;

if (factor>1)

memvalue=0;

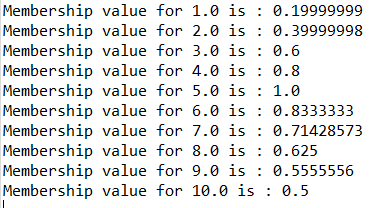
System.out.println("Membership value for " + x[i] + " is : " + memvalue);

}

}

}

**Output-**

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