>> values = input('Enter input values : ');

Enter input values :

[1,4,8]

>> membership = input('Enter set A membership values): ');

Enter set A membership values):

[0.2,0.5,0.9]

>> membership1 = input('Enter set B membership values): ');

Enter set B membership values):

[0.2,0.7,0.8]

>> if length(values) ~= length(membership) || length(values)~= length(membership1);

error('The number of values must match the number of membership values.');

end

>> u= max( membership,membership1);

i= min( membership,membership1);

>> c1=1-membership;

c2= 1- membership1;

>> figure;

>> subplot(2,2,1);

>> title('Fuzzy Set A and B');

>> plot(values, membership,'bo-','MarkerSize', 8);

>> hold;

Current plot held

>> plot(values, membership1,'ro-','MarkerSize', 8);

>> xlabel('Input Values');

ylabel('Membership Values');

>> legend('membership','membership1');

>> grid;

>> subplot(2,2,2);

>> title('Union');

>> plot(values, u,'m','MarkerSize', 8);

>> xlabel('Input Values');

ylabel('Membership Values');

>> grid;

>> subplot(2,2,3);

>> title('Intetrsection');

>> plot(values, i,'m','MarkerSize', 8);

>> xlabel('Input Values');

ylabel('Membership Values');

>> grid;

>> subplot(2,2,4);

>> title('Complement');

>> plot(values,c1, 'bo-','MarkerSize',8);

>> hold;

Current plot held

>> plot(values,c2, 'ro-','MarkerSize',8);

>> xlabel('Input Values');

ylabel('Membership Values');

>> legend('c1','c2');

>> grid;

>> sgtitle('fuzzy set operation');