Lab 1

1. Write a program that takes two or more sets as input and produces set operations like union, intersection, difference and symmetric difference as its output.
2. Write a program that takes two or more sets as input and produces their Cartesian product as output.
3. Write a program that takes a real number and produces is ceiling and floor integers as output.
4. Write a program that takes name and age of a 5 persons as an input and gives the degree of membership of the person as its output according to following membership functions.
    a. Degree of membership = 1 if age<=20

        Degree of membership = (30-age)/10 if age>20 and age<=30

        Degree of membership = 0 if age>30

    b. Degree of membership = 1 if age<=15

        Degree of membership = (35-age)/20 if age>15 and age<=35

        Degree of membership = 0 if age>35

Perform set operations according to rules of fuzzy sets, on these

two sets.