```
#Union of Two Fuzzy Sets
A = dict()
B = dict()
Y = dict()
A = \{"a": 0.2, "b": 0.3, "c": 0.6, "d": 0.6\} \\ B = \{"a": 0.9, "b": 0.9, "c": 0.4, "d": 0.5\} \\
print('The First Fuzzy Set is :', A)
print('The Second Fuzzy Set is :', B)
for A_key, B_key in zip(A, B):
  A_{value} = A[A_{key}]
  B_value = B[B_key]
  if A_value > B_value:
    Y[A_key] = A_value
  else:
    Y[B_key] = B_value
print('Fuzzy Set Union is :', Y)
     The First Fuzzy Set is : {'a': 0.2, 'b': 0.3, 'c': 0.6, 'd': 0.6} The Second Fuzzy Set is : {'a': 0.9, 'b': 0.9, 'c': 0.4, 'd': 0.5} Fuzzy Set Union is : {'a': 0.9, 'b': 0.9, 'c': 0.6, 'd': 0.6}
#Intersection of Two Fuzzy Sets
A = dict()
B = dict()
Y = dict()
A = {"a":
            0.2,
                      "b":
                               0.3,
                                        "c":
                                                0.6,
                                                          "d":
                                                                   0.6}
                             0.9,
                                      "c": 0.4,
B = {"a": 0.9,
                                                          "d":
                      "b":
                                                                   0.5}
print('The First Fuzzy Set is :', A)
print('The Second Fuzzy Set is :', B)
for A_key, B_key in zip(A, B):
    A_{value} = A[A_{key}]
    B value = B[B key]
    if A_value < B_value:</pre>
       Y[A_key] = A_value
    else:
        Y[B_key] = B_value
print('Fuzzy Set Intersection is :', Y)
     The First Fuzzy Set is : {'a': 0.2, 'b': 0.3, 'c': 0.6, 'd': 0.6}
     The Second Fuzzy Set is : {'a': 0.9, 'b': 0.9, 'c': 0.4, 'd': 0.5}
     Fuzzy Set Intersection is : {'a': 0.2, 'b': 0.3, 'c': 0.4, 'd': 0.5}
#Difference Between Two Fuzzy Sets
A = dict()
Y = dict()
A = \{"a": 0.2, "b": 0.3, "c": 0.6, "d": 0.6\}
print('The Fuzzy Set is :', A)
for A_key in A:
 Y[A_key] = 1-A[A_key]
print('Fuzzy Set Complement is :', Y)
     The Fuzzy Set is : {'a': 0.2, 'b': 0.3, 'c': 0.6, 'd': 0.6}
     Fuzzy Set Complement is : {'a': 0.8, 'b': 0.7, 'c': 0.4, 'd': 0.4}
#Demonstrate the Difference Between Two Fuzzy Sets
A = dict()
B = dict()
Y = dict()
```