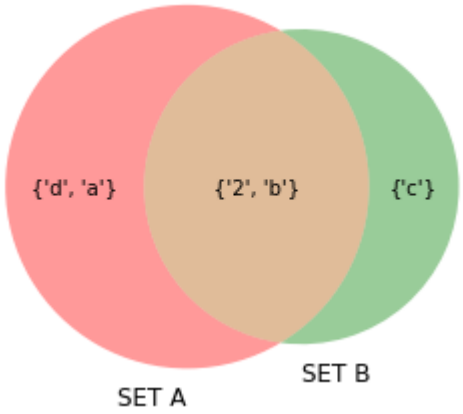
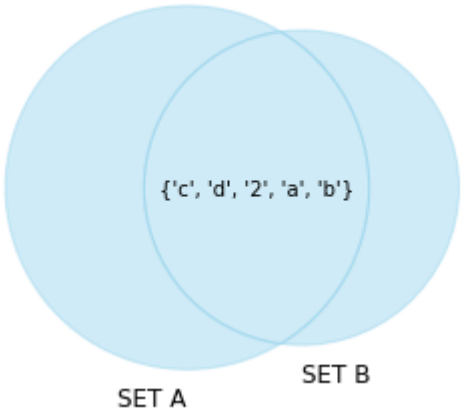
```
In [6]: runfile('C:/Users/lenovo/Desktop/i/dm_assign.py', wdir='C:/Users/lenovo/Desktop/i')

enter :-1 for string input in set and enter: 2 for integer input:- 1

enter values of set a :- a b d 2

enter values of set b :- b 2 c

enter values of universal set :- 2 a b c d e

                                |---------------------------------------------|
                                |universal = {'c', 'e', 'd', '2', 'a', 'b'}
                                |intersection = {'2', 'b'}
                                |difference(a-b) = {'d', 'a'}
                                |difference(b-a) = {'c'}
                                |union = {'c', 'd', '2', 'a', 'b'}
                                |compliment of a = {'c', 'e'}
                                |compliment of b = {'d', 'a', 'e'}
                                |---------------------------------------------|

VENN DIAGRAMS REPRESENTATION :--

1) Representation of set a and set b :-
```

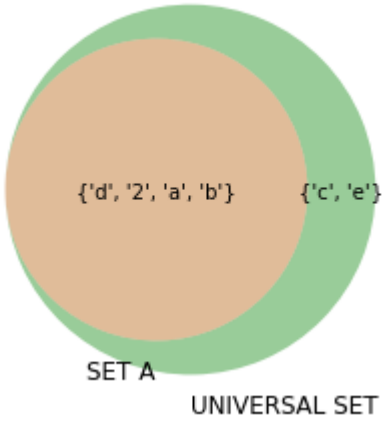



```
HERE,red = difference(a-b) brown = intersection(a&b) and green = difference(b-a)

2) Representation of union of a and b:-
```



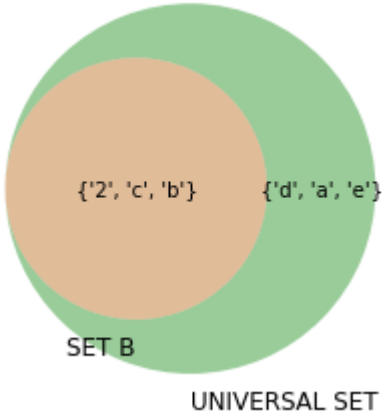

```
HERE,the common color shows the union
```

3) Representation of compliment of set a :-



HERE, green = compliment of set a

4) Representation of compliment of set b :-



HERE, green = compliment of set b

In [7]: