

In [8]: `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:- 2

enter elements of set a : -1 0 2 3 5

enter elements of set b : -2 -1 2 4

enter range of universal set:- -2 6

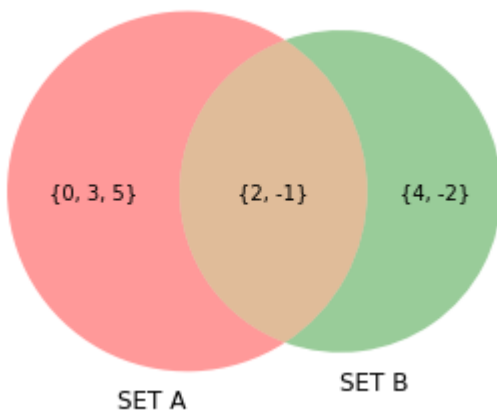
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|-----|
|universal = {0, 1, 2, 3, 4, 5, 6, -1, -2}|
|intersection = {2, -1}|
|difference(a-b) = {0, 3, 5}|
|difference(b-a) = {4, -2}|
|union = {0, 2, 3, 4, 5, -2, -1}|
|compliment of a = {1, 4, 6, -2}|
|compliment of b = {0, 1, 3, 5, 6}|
|-----|

```

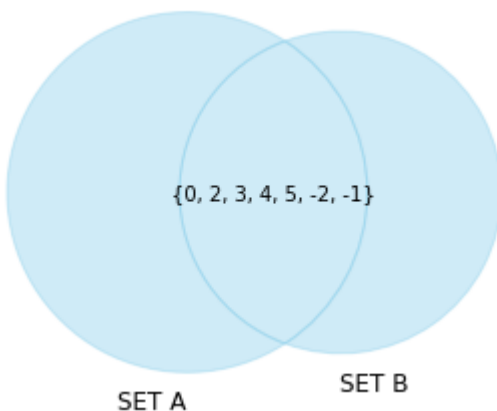
VENN DIAGRAMS REPRESENTATION :--

1) Representation of set a and set b :-



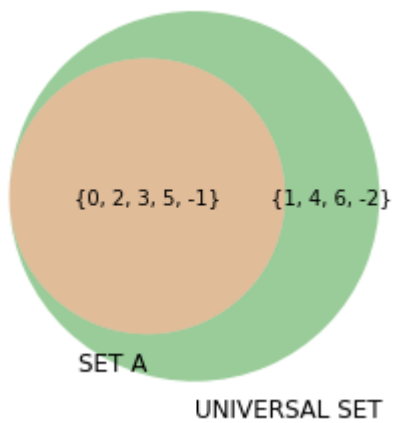
HERE, red = difference(a-b) brown = intersection(a&b) and green = difference(b-a)

2) Representation of union of a and b:-



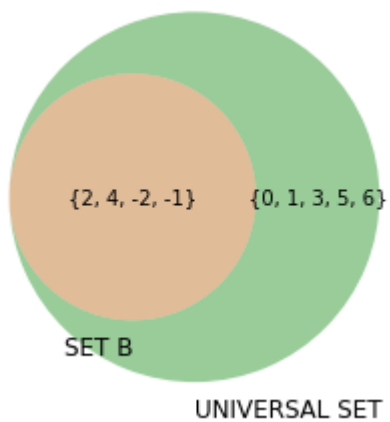
HERE, the common color shows the union

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 [9]: