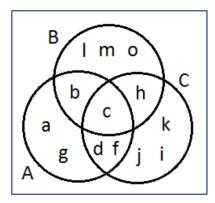
## LABORATORY ACTIVITY 4B: SET AND DICTIONARY

## **PROGRAM 1:**

Use set operations to write the equivalent syntax that will show the needed output as given from the following statements given the figure below.



- a) How many elements are there in set A and B
- b) How many elements are there in B that is not part of A and C
- c) Show the following using set operations
- i. [h, i, j, k]
- ii. [c, d, f]
- iii. [b, c, h]
- iv. [d, f]
- v. [c]
- vi. [1, m, o]

```
~ VENN DIAGRAM SET OPERATIONS ~
                    By Pauline Mapoy
[a] Elements in A and B (A ∪ B): 10
[b] Elements in B that are not in A and C (B - (A \cup C)): 3
             SHOWING SPECIFIC SET OPERATIONS
[c] i: {'k', 'j', 'i'}
    • Elements that belong only to C(C - A - B)
          [c] ii: {'c'}
   • Elements common to all three sets (A n B n C)
[c] iii: {'h', 'c'}
    • Elements that belong to both B and C (B n C)
[c] iv: {'c', 'b'}

    Elements that belong to both A and B (A n B)

[c] v: {'c'}

    Elements common to A, B, and C (A n B n C)

[c] vi: {'o', 'l', 'm'}

    Elements that belong only to B (B − (A ∪ C))
```

## **PROGRAM 2:**

given the file currency.csv (currency exchange from 1 USD), create a program that will convert a certain input currency given the dollar to be converted.

## **Example Output:**

How much dollar do you have? 100 What currency you want to have? PHP

Dollar: 100 USD

Philippine Peso: 5481.472580697

\$ CURRENCY CONVERTER \$     By Pauline Mapoy
Enter the amount in USD: 80 Enter the currency code to convert to: SGD
!! RESULT !!
USD: 80.00 USD Singapore Dollar 106.04 SGD
Do you want to convert another currency? (yes/no): yes Enter the amount in USD: 20 Enter the currency code to convert to: AUD
!! RESULT !!
USD: 20.00 USD Australian Dollar 28.80 AUD
Do you want to convert another currency? (yes/no): no
THANK YOU FOR USING THE PROGRAM   Come Back Again!:)