```
                                    Lk = dict()

                                         │
                                         ▼
                              open('buckets_new.csv')
                                         │
                                       True
                                         │
                                         ▼
                                     l in file
                                         │
         ┌───────────────────────────────┘
         ▼
      ◇ ◇
       │
     True
       │
       ▼
  l = str(l.split(","))
       │
       ▼
  i in range(0, Canditate_len)
       │
       ▼
      ◇ ◇
       │  └─────────── False ───────────┐
     True                                │
       │                                 ▼
       ▼                            file.close()
  key = str(Canditate[i])                │
       │                                 │
       ▼                                 ▲
  ◇ key not in Lk ◇
       │      └──────── True ────────┐
     False                            │
       │                              ▼
       │                         Lk[key] = 0
       │                              │
       ▼                              ▼
                               flag = True
                                    │
                                    ▼
                                 k in key
                                    │
                                    ▼
                                   ◇ ◇
                    ┌──── False ────┘   └──── True ────┐
                    ▼                                  ▼
                  ◇ flag ◇                       ◇ k not in l ◇
              ┌── True ──┘  └── False ─┐       ┌─ False ─┘  └── True ──┐
              ▼                         │       │                      ▼
         Lk[key] += 1                   │       │                 flag = False
              │                         │       │                      │
              ▼                         ▼       ▼                      ▼
```

Program to find subset in Apriori:

```
Lk = dict();

if(open('buckets_new.csv')){

    for (l in file){

      l = str(l.split(","));

      for (i in range(0, Canditate_len)){

        key = str(Canditate[i]);

        if (key not in Lk)

           Lk[key] = 0;


        flag = True;

        for (k in key){

          if (k not in l)

             flag = False;

        }

        if (flag)

          Lk[key] += 1

   }

file.close()
```

CYCLOMATIC COMPLEXITY

   (i) $V(G)= E- N +2 = 28- 15 +2 = $ **15**

  (ii) $V(G)=$Nos of predicate nodes + 1 = 3 + 1 =**4**

 (iii) $V(G)=$Nos of regions = **7**

INDEPENDENT PATHS

1-2-4

1-2-3-4-5

1-2-4-6-7-8-9-11-12-14-15-16-20-22-21

TEST CASE ID	EXPECTED RESULT	INDEPENDENT PATH
1	File not found	1-2-4
2	Entry not found in file	1-2-3-4-5
3	Frequent subsets found	1-2-4-6-7-8-9-11-12-14-15-16-20-22-21