Experiment - 1.3

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1. Aim/Overview of the practical:

Given an array which may contain duplicates, print all elements and their frequencies.

2. Task to be done/ which logistics used:

For every item count number of times it occurs. To avoid duplicate printing, keep track of processed items.

3. Steps for experiment/practical/Code

Program Code:

```
#include<bits/stdc++.h>
using namespace std;

void countFreq(int a[], int n)
{
   vector<bool>visited(n, false);

   for (inti = 0; i< n; i++)
        {
     if (visited[i] == true)
```

```
        continue;
int count = 1;
      for (int j = i + 1; j < n; j++)
                  {
         if (a[i] == a[j])
                        {
            visited[j] = true;
            count++;
         }
      }
cout<< a[i] << "--->" << count <<" Times"<<endl;
   }
}

intmain()
{
        intn,i;
        cout<<"Enter the size of array: ";
        cin>>n;
        int a[n];
        for(i=0;i<n;i++)
        {
                cin>>a[i];
        }
countFreq(a, n);
   return 0;
}
```

4. Result/Output/Writing Summary: