```
#include <stdio.h>
#include <math.h>
void main()
{
  int n, i;
  float ex_f, c_cal, c_tab,e_freq[50],o_freq[50],sum;
  printf("How many numbers max[50] for frequency?");
  scanf("%d",&n);
  printf("Observed frequency:\n");
  for(i=0;i<n;i++)
  {
    printf("frequency [%d]",i);
    scanf("%f",&o_freq[i]);
  }
  sum=0;
  for(i=0;i<n;i++)
  {
    sum+=o_freq[i];
  ex_f=sum/n;
  for(i=0;i<n;i++)
  {
  e_freq[i]=ex_f;
  printf("Expected frequency: %0.3f \n",e_freq[i]);
  }
  for(i=0;i<n;i++)
  {
    c\_cal+=(o\_freq[i]-e\_freq[i])*(o\_freq[i]-e\_freq[i])/e\_freq[i];
     printf("the chi-square table value:%f",c_cal);
  }
```

```
printf("Enter the chi-square table value:");
scanf("%f",&c_tab);
if (c_cal < c_tab)
{
    printf("The table value is %f and the calculated value is %0.3f.Accept H0. There is no significant difference in claim at %d d.f", c_tab, c_cal, n-1);
}
else
{
    printf("The table value is %f and the calculated value is %0.3f Reject H0. There is significant change in claim at %d d.f",c_tab, c_cal, n-1);
}
getch();
}</pre>
```