

```
/* tetraeder.c - Erstes  
Beispielprogramm aus der Vorlesung */
```

```
#include <stdio.h>
```

```
#include <math.h>
```

```
int main()
```

```
{  
    float a, flaeche, vol;  
    /* a = Kantenlaenge */
```

```
    char puffer[130];
```

```
    printf("Wie gross soll die "  
           "Kantenlaenge sein? ");  
    gets(puffer);  
    sscanf(puffer, "%f", &a);
```

```
    flaeche = a * a * sqrt(3.0);  
    vol = a * a * a * sqrt(2.0)/12.0;
```

```
    printf("\nErgebnis: Flaeche %f,"  
           " Volumen %f.\n", flaeche, vol);
```

```
    return 0;  
}
```