

Chapter 07

Arrays — Strings

■ Introduction

- Strings are arrays: arrays of type char
- In many C books and courses, arrays and strings are taught at the same time as **pointers**
- Pointer will be a new concept for many readers — so we will postpone this topic till we finished strings and arrays

■ Arrays

- Collection of similar data items
- Inconvenient to give each one a unique variable name

Example:

- Print numbers above average number

```
for(i=1;i<=5;i++)
{
    scanf("%f",&x);
    sum = sum + x;
}
av = sum/5;

for(i=0;i<5;i++)
{
    scanf("%f",&x[i]);
    sum = sum + x[i];
}
av = sum/5;
```

■ **Definition**

```
float week[7];
```

Float : data type

Week: array name

7: size of array