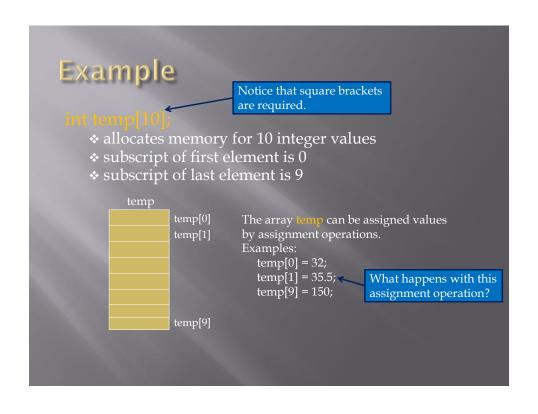


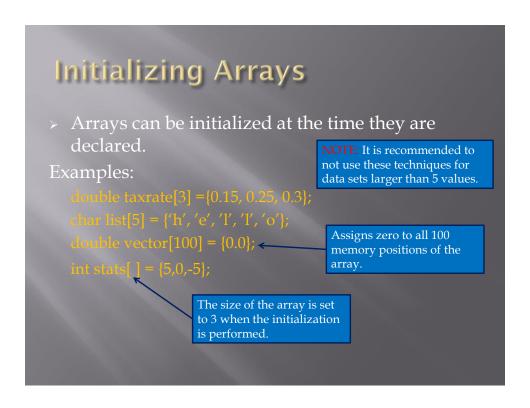
Definition and Initialization

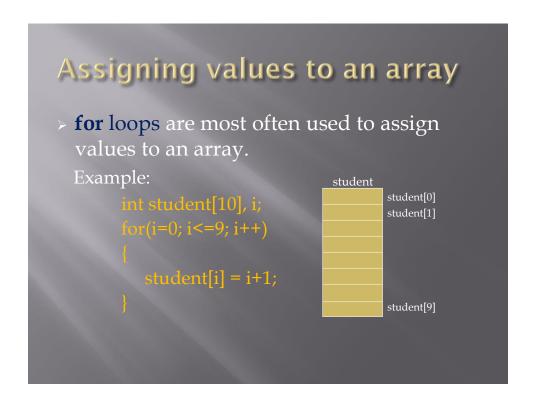
> An array is defined using a declaration statement.

General form: data-type-array_name[size];

- *allocates memory for size elements.
- ❖subscript of first element is 0.
- ❖subscript of last element is size-1.
- *size must be an integer constant.







Input from a data file

> Arrays are often used to store information from an input data file.

Example:

```
double time[10], motion[10];
int i, ndata;
FILE *quake;
quake = fopen(inputfile, "r");
fscanf(quake, "%i", &ndata);
for(i=0; i<=ndata-1; i++)
{
    fscanf(quake, "%lf %lf", &time[i], &motion[i]);
}</pre>
```