Nested if Statements

- if-else statement can contain simple or compound statements
 - Another if-else statement can be included
- Example:

```
if (hours < 9)
{
    if (distance > 500)
        cout << "snap";
}
else
    cout << "pop";</pre>
```

The if-else Chain

Format:

```
if (expression_1)
    statement1;
else if (expression_2)
    statement2;
else
    statement3;
```

 Chain can be extended indefinitely by making last statement another if-else statement



Program 4.4

```
#include <iostream>
using namespace std;
int main()
  char marcode;
  cout << "Enter a marital code: ";</pre>
  cin >> marcode;
  if (marcode == 'M')
    cout << "Individual is married." << endl;</pre>
  else if (marcode == 'S')
    cout << "Individual is single." << endl;</pre>
  else if (marcode == 'D')
    cout << "Individual is divorced." << endl;</pre>
  else if (marcode == 'W')
    cout << "Individual is widowed." << endl;</pre>
  else
    cout << "An invalid code was entered." << endl;</pre>
 return 0;
```