

```

1 *****;
2 * Using Character Functions to Extract Words *;
3 * from a String *;
4 *****;
5 * Syntax *;
6 * *;
7 * SCAN (string, n <, 'delimiters'>) *;
8 * PROPCASE (string, <, 'delimiters'>) *;
9 *****;
10
11 *****;
12 * Demo *;
13 * 1) Notice that the DATA step creates the City and *;
14 * Prefecture columns by extracting the first or *;
15 * second word from Location. Highlight the step and *;
16 * run the selected code. *;
17 * 2) Examine row 8 in the output data. Notice that the *;
18 * city name should be MIYAKE-JIMA. However, the *;
19 * hyphen is a default delimiter, so MIYAKE is *;
20 * assigned to City and JIMA is assigned to *;
21 * Prefecture. *;
22 * 3) In both SCAN functions, add a third argument to *;
23 * specify that the only delimiter is a comma. *;
24 * Highlight the step and run the selected code. *;
25 * 4) Add an additional assignment statement to create a *;
26 * column named Country that reads the last word in *;
27 * Location. *;
28 * 5) Use the PROPCASE function in the City assignment *;
29 * statement to capitalize the first letter of each *;
30 * word and convert the remaining letters to *;
31 * lowercase. Highlight the step and run the selected *;
32 * code. *;
33 * 6) Examine row 8 again in the output data. Because the *;
34 * hyphen is a delimiter, both Miyake and Jima are *;
35 * capitalized. The proper casing for this city name *;
36 * should be Miyake-jima. Use the optional second *;
37 * argument to specify that the only delimiter should *;
38 * be a space. Highlight the step and run the selected *;
39 * code. *;
40 * *****;
41 *****;
42
43 .....
44 data weather_japan_clean;
45     set pg2.weather_japan;
46     Location=compbl(Location);
47     City=propcase(scan(Location, 1, ','), ' ');
48     Prefecture=scan(Location, 2, ',');
49     Country=scan(Location, -1);
50
51 run;

```