

```

1 *****;
2 * Using Character Functions *;
3 *****;
4 * Syntax and Example *;
5 * DATA output-table; *;
6 * SET input-table; *;
7 * new-column=function(arguments); *;
8 * RUN; *;
9 * *;
10 * Numeric Functions: *;
11 * SUM(num1, num2, ...) *;
12 * MEAN(num1, num2, ...) *;
13 * MEDIAN(num1, num2, ...) *;
14 * RANGE(num1, num2, ...) *;
15 * *;
16 * Character Functions: *;
17 * UPCASE(char) *;
18 * PROPCASE(char, <delimiters>) *;
19 * CATS(char1, char2, ...) *;
20 * SUBSTR(char, position, <length>) *;
21 *****;
22
23 .....
24 data cars_new;
25     set sashelp.cars;
26     MPG_Mean=mean(MPG_City, MPG_Highway);
27     Type=upcase(Type);
28     format MPG_Mean 4.1;
29     keep Make Model MSRP Invoice MPG_Mean Type;
30 run;
31
32 *****;
33 * Demo *;
34 * 1) Add an assignment statement to convert Basin to *;
35 * all uppercase letters using the UPCASE function. *;
36 * 2) Add an assignment statement to convert Name to *;
37 * proper case using the PROPCASE function. *;
38 * 3) Add an assignment statement to create Hemisphere, *;
39 * which concatenates Hem_NS and Hem_EW using the *;
40 * CATS function. *;
41 * 4) Add an assignment statement to create Ocean, *;
42 * which extracts the second letter of Basin using *;
43 * the SUBSTR function. Highlight the DATA step and *;
44 * run the selected code. *;
45 *****;
46
47 .....
48 data storm_new;
49     set pg1.storm_summary;
50     drop Type Hem_EW Hem_NS MinPressure Lat Lon;
51     *Add assignment statements;
52     Basin =upcase(Basin);

```

```
53   Name = propcase(Name);  
54   Hemisphere=cats(Hem_NS,HEM_EW);  
55   Ocean = substr(Basin,2,1);  
run.
```