Write a C++ program called "Conversion" which presents the user with a menu similar to that shown below:

```
Conversion
1. Convert Centigrade to Fahrenheit.
2. Convert Fahrenheit to Centigrade.
3. Convert Centigrade to Kelvin.
5. Calculate the Wind Chill factor.
```

To use your program the user will enter a number 1 to 6. Your program should then prompt the user for the appropriate input and display the appropriate results. After displaying the results, prompt the user to push "Enter" to return to the menu.

Here are some equations which may be helpful.

- \( C^° = \frac{5}{9}(F^° - 32) \)
- \( F^° = \frac{9}{5}C^° + 32 \)
- \( K^° = C^° + 273.18 \)
- \( R^° = F^° + 459.69 \)

Wind Chill Factor = 0.0817*(3.71*SQRT(W)+5.81-0.25*W)*(F^°-91.4)+91.4

where \( W \) is the wind speed in miles per hour

Your program must be modular such that your main program is mostly a sequence of function calls. Your input function must issue appropriate prompts, check for erroneous input out of range inputs, and issue error messages as needed.

Turn in the following:
1. A complete source listing of your C++ code.
2. A printed output screen showing the results from a sequence that exercises all input conversions.