temperature

Write a C program that repeatedly reads the user input on temperature in degrees Fahrenheit, and then converts the temperature from degrees Fahrenheit into degrees Celsius. The relevant formula is given as follows: Celsius = (5/9)*(Fahrenheit – 32). You may assume that the user input is a positive value, and the sentinel value –1 is used for the input to indicate the end of user input. No need to check errors on user input.

A sample program template is given below:

```
#include <stdio.h>
int main()
{
  /* Write your code here */
  return 0;
}
```

Sample input and output sessions are given below:

(1) Test Case 1:

```
Enter the temperature in degree F:
45
Converted degree in C: 7.22
Enter the temperature in degree F:
-1
```

(2) Test Case 2:

```
Enter the temperature in degree F:
12
Converted degree in C: -11.11
Enter the temperature in degree F:
45
Converted degree in C: 7.22
Enter the temperature in degree F:
-1
```

```
#include <stdio.h>
int main()
{
   int n = 0;
   float c;
   int h;
   float f;

   while(n!=-1)
   {  printf("Enter the temperature in degree F:\n");
      scanf("%d",&n);
      h = n-32;
      f = (5.0/9);
      c=f*h;
      if(n==-1)
      {
         break;
      }
      else
      {
         printf("Converted degree in C: %.2f\n",c);

      }
   }

  return 0;
}
```

take note of printing in float, converting fractions to float and declaring in float