#include <stdio.h>  
#include <stdlib.h>  
/\*  
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\* Class and Semester: CIS 1057 Section 004 Fall 2023  
\* Date: Wednesday, September 6, 2023  
\* Assignment: Lab 1  
\* Name: Temperature Conversion  
\* Description: Prompt for input, convert Fahrenheit to  
\* Celsius, display output.  
\*/  
#define CELSIUS\_ADJUSTMENT 0.5555555  
int main()  
{  
double celsius, fahrenheit;  
// print a banner telling the interactive user about us  
puts( "TEMPERATURE CONVERSION" );  
puts( "This program will convert a Fahrenheit temperature to Celsius." );  
// prompt for INPUT from the user  
printf( "Enter a temperature in fahrenheit: " );  
scanf ( "%lf", & fahrenheit );  
// perform the CALCULATION to convert temperature  
celsius = ( fahrenheit - 32.0 ) \* CELSIUS\_ADJUSTMENT;  
// OUTPUT the results to the screen  
printf( "%0.3lf degrees fahrenheit is %0.3lf in celsius.\n",  
fahrenheit, celsius );  
printf( " %lfF = %lfC.\n", fahrenheit, celsius );  
return EXIT\_SUCCESS;  
}