Project 01: Numeral Systems

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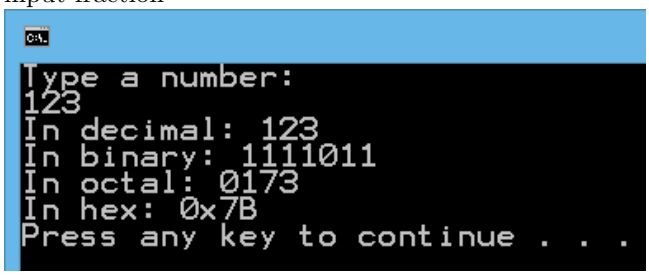
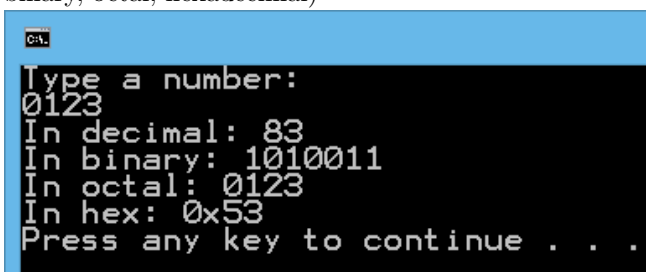
Your task is to write a program, that for every number entered by user will output how this number looks like in different bases (decimal, binary, octal, hexadecimal).

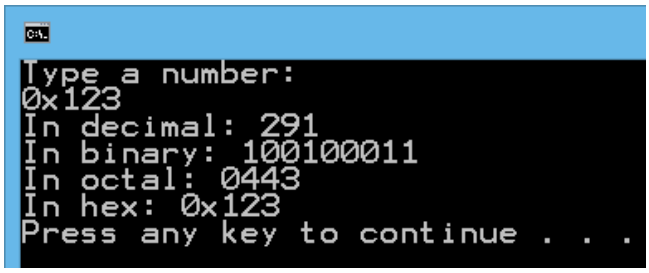
1. (4 points) For every decimal number the user inputs, display how it will look like in the following bases: decimal, binary, octal, hexadecimal. At this point accept only integer numbers, display error to user if it tries to input fraction



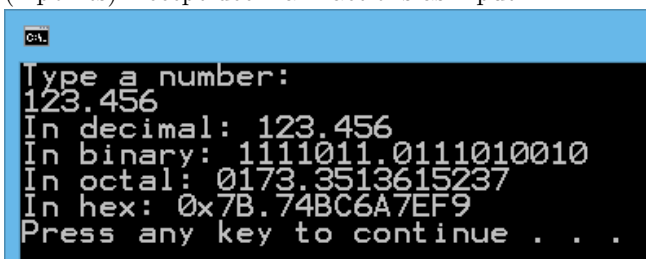
2. (4 points) Allow user to input octal number (octal numbers start with leading 0). As before display the same number in all the bases (decimal, binary, octal, hexadecimal)



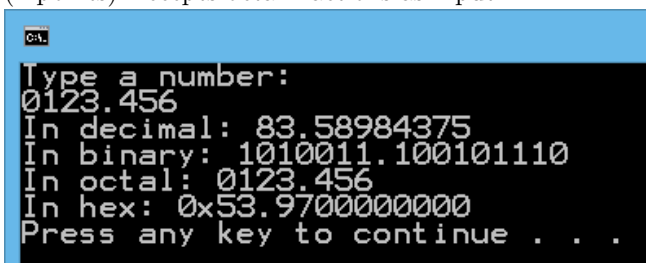
3. (4 points) Allow user to input hexadecimal number (hexadecimal numbers start with 0x). As before display the same number in all the bases (decimal, binary, octal, hexadecimal)



4. (4 points) Accept decimal fractions as input



5. (2 points) Accepts octal fractions as input



6. (2 points) Accept hexadecimal fractions as input