1. Write a complete Python program that does the following. (Don’t use a loop, even if you know how.)
   1. It asks the user to enter a positive number x.
   2. The program reads the number entered by the user. If x is not less than 10, the program should terminate.
   3. The program prints the word “Hi” x times on **one** line

2. Write a complete Python program that does the following. (Don’t use a loop, even if you know how.)
   1. It asks the user to enter a positive number x.
   2. The program reads the number entered by the user. If x is not less than 10, the program should terminate.
   3. The program prints the word “Hi” on x lines, once on each line.
   For example if x=4, the program will print
      
      Hi
      Hi
      Hi
      Hi

3. Write a complete Python program that does the following.
   4. It asks the user to enter a positive number x.
   5. The program reads the number entered by the user. If x is not positive, the program should terminate.
   6. The program prints the square root of x.
   Here is an example of how the program should work:
   Enter a positive number: 6.25
   The square root is: 2.5

4. Write a complete Python program that does the following.
   1. It asks the user to enter a decimal number that is greater than 0 and less than 10.
   2. If the entered number is not within the desired range the program exits.
   3. Otherwise the program prints the square of the number.
   Here is an example of how the program should work:
   Enter a number greater than 0 and less than 10: 2.5
   The square is: 6.25

Definition: **A leap year** is a year that is divisible by 4. However a special rule applies to “century years” like 100, 400, 2500 etc.. Only century years divisible by 400 are leap years. So, 100 is not leap year (even though it is divisible by 4) but 1200 is.

5. Write a complete Python program that does the following.
   1. It asks the user to enter an integer number x that is greater than 0 and less than 2500.
   2. If x is not within the desired range the program exits.
   3. Otherwise the program determines whether or not x represents a “leap year”.
   4. Depending on the answer to 3, the program will print out the value of x and “is a leap year.” or “is not a leap year.”