Lab work – for loops

Please use for loops to solve the following problems

1. Write a complete C++ program that does the following:
   - It asks the user to enter their age
   - If a negative integer is entered, ask the user repeatedly until a positive integer is entered.
   - The program should print the word Hello once for each year of the user's age.

   - Here is an example of how the program should work:
   - Enter your age: 5
   - Hello Hello Hello Hello Hello

2. Write a complete C++ program that
   - asks the user to a positive integer between 1 and 10
   - checks that the value entered is valid, if not ask the user repeatedly until an integer between 1 and 10 is entered.
   - calculates and prints out x^x (DO NOT USE pow()) as shown below

   Here is an example of the program should work:

   Enter a number between 1 and 10: 6

   ```
   6^1     =     6
   6^2     =     36
   6^3     =     216
   6^4     =     1296
   6^5     =     7776
   6^6     =     46656
   ```

3. Print out all odd numbers from 1 to 500. (8 numbers per line)