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 $x^n$ (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)