Practical Computer Science Test

Name: _____   Date: 30/09/19

Squares and Powers

This program will print out the number, squares and powers of a number.
Work through the test from the beginning. Make sure that the teacher verifies that you have got each point as you go. Your program should build and grow – do not start new program for each point. You may use any resources that *you have created* for this test. Using the Internet is not allowed and will get you a grade of 1.

Instructions		*Program Display*
1.	Output your name on the screen.	Juan Cortez
2.	Input a number	Enter a number: **4**
3.	Outputs all the values 1, 2, 3 etc. up to the input number.	Enter a number: **4** 1 2 3 4
4.	Outputs the numbers and the squares correctly for all values up to the input number.	1 1 2 4 3 9 4 16
5.	Outputs the number, squares and powers of all values up to the input number.	1 1 4 2 4 16 3 9 64 4 16 256
6	Output and error message and end the program if the number input is ≥ 10.	Enter a number less than 10: **11** >>> Error – invalid input
7.	Output and error message and end if the number input is <1 or ≥ 10.	Enter a positive number less than 10: **0** >>> Error – invalid input
8.	The squares are aligned as shown. Write your own code. Do not use libraries or built-in methods.	Enter a positive number less than 10: **5** 1 1 5 2 4 25 3 9 125 4 16 625 5 25 3125
9.	All the answers aligned.	Enter a positive number less than 10: **9** 1 1 9 2 4 81 3 9 729 4 16 6561 5 25 59049 6 36 531441 7 49 4782969 8 64 43046721 9 81 387420489
10.	*Only* accepts inputs of a number from 1 to 9. Repeats until a good number is entered.	Enter a positive number less than 10: **-1** >>> Error please enter again Enter a positive number less than 10: **10** >>> Error please enter again Enter a positive number less than 10: