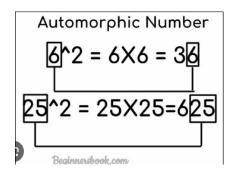
Number Programs -

1- Check weather the number is **Automorphic** or not

An automorphic number is a natural number whose square ends with the same digits as the number itself. For example, 5 square is 25 so 5 is a automorphic number.



2- Check weather the number is Happy or not a happy number is a number that eventually reaches 1 when you repeatedly square each of its digits and add the results. For example, 13 and 49 are happy numbers.

Happy Number

$$e.g. 19$$
 $1^2 + 9^2 = 82$
 $8^2 + 2^2 = 68$
 $6^2 + 8^2 = 100$
 $1^2 + 0^2 + 0^2 = 1$

3- Find LCM – Lowest Common Multiple
Research on what is LCM and write logic for the same.

Pattern Programs –