Spy Number :

if sum of digits in a given number is equal to product of digits in a given number is known as spy-number.

Harshat or Niven :

if a number is divisible by sum of its digits then that number is called harshat number. Ex :21 (21/(2+1))==0

# Neon :

the sum of digits of a square of the number is equal to the number.

# Palindrome :

The reverse of a given number or string is equal to actual number or string is known as palindrome.

# Prime Number :

A number which is divisible by itself and by 1 is known as prime number.

# Perfect Number :

When the sum of factors of a number excluding the same number is also a same number. Ex : 6(1+2+3), 28 (1+2+4+&+14).

# Strong Number :

The sum of factorial of a digits in a given number is also a same number. Ex :145 (1\*1 + 4\*3\*2\*1 + 5\*4\*3\*2\*1) --> (1 + 24 + 120).

# Disarium Number :

The sum of each digits raise to the power of position of each digits. Ex : 175

# Automarphic Number :

When the square of a number also ends with same number it is called as automarphic number. Ex : 5^2 =25 ends with 5, 6^2=36 ends with 6.

# Sunny Number :

The number can be called as sunny number if the next number is perfect square number. Ex : 80, 15 ,8,

Perfect square means : 1^2 =1 , 2^2 =4, 3^2=9 , 4^2=16 , 5^2 =25…………….etc.

1,4,9,16,25………..are perfect square numbers.

# Unique Number :

When there is no repetation of digits in the given number is known as unique number. Ex : 12345, 9876;…………….

# Duck Number :

If a given number which has zero In it or atleast one zero in it is called as duck number .

# Twisted Prime Number :

A prime number after reversing is also a prime number known as twisted prime number.

# Happy Number :

A number in which the sum of squares of digit is recurisively 1.

# Armstrong Number :

Sum of digits in a number raised to power of count of digits in given number is same .

# Series

1. Prime Number series.
2. Palindrome series.
3. Perfect square series.
4. Strong number series.
5. Fibonacci series
6. Fibonacci series in reverse order.
7. Nth prime number
8. Nth palindrome number
9. Write a program to convert decimal value into a binary value.

# Patterns