Python Practice question as per the interview requirement

1. Write a program to check if a given number is an **Armstrong** number.(153=1**3+5**3+3**3)
2. Write a program to check if the given string is a **palindrome**. (madam=madam)
3. Write a program to get the **Fibonacci series**. (0,1,1,2,3,5,8,13,21……..)
4. Write a program to find the **factorial** of a given number.
5. Write a program to find how many **vowels and consonants** are present in strings.
6. Write a program to create **calculator** through functions.
7. Write a program to check given year is **leep year or not**.
8. Write a program to check if the given strings are **anagram or not**. (python=typhon).
9. Write a program to check given number is **Harshad number/ Niven number** or not. (A Harshad number (also known as a Niven number) **is a positive integer** that is divisible by the sum of its digits. Example – 18%(1+8)==0)
10. Write a program to check given number is **neon number** or not. (A neon number is a number where the sum of digits of square of the number is equal to the number. Example- digit = 9 square of digit 9*9=81 sum of square digit 8+1=9)
11. Write a program to check given number is **Peterson number or not. (** A number is said to be a Peterson number if the sum of factorials of each digit of the number is equal to the number itself. Example – n=145, sum of 1!+4!+5!=145)
12. Write a program to check given number is **spy no or not**. (A number is said to be a Spy number if the sum of all the digits is equal to the product of all digits. Examples: Input : 1412. 1+4+1+2 == 1*4*1*2 Output : Spy Number.)
13. Write a program to check given number is **sunny no or not**. (It is a positive number where the sum of its digits equals the number itself when those digits are squared. Example, 19 is a sunny number because 1**2 + 9**2 = = 82, now 8+2==1+9.)