1. Write a menu driven python program to input a number and display the new number after reversing the digits of the original number. The program also displays the absolute difference between the original number and the reversed number.

   Sample Input: 194
   Sample Output: 491
   Absolute Difference= 297

2. Write a recursive python program to calculate and display the factorial of a number.

3. Write a menu driven Python program to accept a number from the user and check whether it is a Palindrome or a Perfect number.
   (a) **Palindrome number:** (A number is a Palindrome which when read in reverse order is same as in the right order)
   Example: 11, 101, 151 etc.
   (b) **Perfect number:** (A number is called Perfect if it is equal to the sum of its factors other than the number itself.)
   Example: 6 = 1 + 2 + 3