1. Write a Program to Calculate Permutation(nCr) for given values of n and r
   The **nCr** formula is:

$$_nC_r = \frac{n!}{r!(n-r)!}$$

2. Write a program that ask for an integer value from the user and then prints the length of the value using loop.
   Sample Output:

```
Enter an integer 521
The Length of Entered Value is  3

Enter an integer 654321
The Length of Entered Value is  6
```

3. Write a program that takes a number from the user and tell us whether the entered number is prime or not.

4. Write a Python function to construct the following patterns, using a
   for loop

Python Patterns

```
#                        #                            #
##                       ##                          ##
###                      ###                        ###
####                     ####                      ####
#####                    #####                    #####
######                   ######                  ######
#######                  #######                #######
########                 ########              ########
#########                #########  #########
##########               #####################
```

```
        #                          #           #
       ###                          #         #
      #####                          #       #
     #######                         # #
    #########                         #
     #######                         # #
      #####                         #       #
       ###                         #         #
        #                         #           #
```