**1: Write a Python program to construct the following pattern, using a nested for loop.**

**\***

**\* \***

**\* \* \***

**\* \* \* \***

**\* \* \* \* \***

**\* \* \* \***

**\* \* \***

**\* \***

**\***

**2: Write a Python program that accepts a word from the user and reverse it.**

**User gives ‘rohit’ but print ‘tihor’**

**3: A positive integer is called an Armstrong number of ordern if**

**abcd... = an + bn + cn + dn + ...**

**In case of an Armstrong number of 3 digits, the sum of cubes of each digit is equal to the number itself. For example:**

**153 = 1\*1\*1 + 5\*5\*5 + 3\*3\*3 // 153 is an Armstrong number.**

**4: Write a Python program to construct the following pattern, using a nested loop number.  
Expected Output:**

**1**

**22**

**333**

**4444**

**55555**

**666666**

**7777777**

**88888888**

**999999999**