Python Test

1.   WAP to print this using loops.

        1
       121
      12321
     1234321
    123454321

2. Write a program in python to calculate and print the Electricity bill of a given customer. The customer id, and unit consumed by the user should be taken from the keyboard and display the total amount to pay to the customer. The charge are as follow :

Unit   Charge/unit

upto 199   @3.20

200 and above but less than 400   @5.50

400 and above but less than 600   @7.80

600 and above   @8.00

If bill exceeds Rs. 1000 then a surcharge of 18% will be charged and the minimum bill should be of Rs. 100/-

3. print fibonnaci series let n=10

        0 1 1 2 3 5 8 13 21 34

4. take a number from user and count how many even digits are in that number eg.4589 -> 2

5. take a ,n,d from user and print the A.P (arithematic progression)

     e.g   let a=10 n=6 d=3

        a a+d a+2d a+3d a+4d a+5d

        10 13 16 19 22 25 Ans.

6. What are lists and tuples? What is the key difference between the two?

7. What is a lambda function, and how does it work?

8. Write a Python program to iterate over dictionaries using for loops.

9. Write a Python function to remove duplicates from a list while preserving the order.

10. Write a Python program to check if two given sets have no elements in common.