1. Create a program that prompts the user for a number and returns the number of digits the number contains.

EX: if the number is 3725, the program displays “3725 has 4 digits”.

2. Write a program that asks the user for a number n and outputs the below pattern. For example, if the user inputs 6 the following pattern is displayed:

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3. Write a program that takes two integers from the user and outputs the range of values from this list list1=[54,76,2,4,98,100]. Make sure the values of the integers are valid. In case they are not, ask again.

Ex: int1=20, int2=80. The program would print:

54

76

4. (this exercise includes parts that were not explained in class, you are tasked with searching for the needed information.

Write a program that repeatedly asks the user for a letter, and then prints all the names in this list that contain that letter

Names=[“Maria”,”Hala”,”Ghady”,”Ehsan”,”Joe”,”Zoe”]

Ex: letter=a, the program would output

Maria

Hala  
Ghady  
Ehsan