## **Python – Problem Sheet**

1. Wire a python program to check whether the entered character is an Alphabet (a-z, A-Z) or not.

Eg:

Input: Given Character: 'A'

Output: The given character is an alphabet

Input: Given Character: '0'

Output: The given character is not an alphabet

- 2. Write a python program to check whether the input number is prime or not.
- 3. Write a python program to check whether the given year is leap year or not.
- 4. Write a Python program to get a string made of the first 7 and the last 2 chars from a given a string. If the string length is less than 7, print error message like "String size is not sufficient".

Sample String: India is our country

Expected Result : India iry

Sample String: VIT

Expected Result : String size is not sufficient

5. Write a Python program to get a single string from two given strings, separated by a space and swap the first two characters of each string.

Sample String : 'Ajith', 'Kumar' Expected Result : 'Kumar Ajith'

- 6. Write a python program to swap two integer numbers **using only two variables**. Temporary variables should not be used.
- 7. Print the following pattern using while loop.

Number of rows: 5

A B C D E F G H I J K L M N O Number of rows: 3

A

B C

DEF

8. Print the following pattern using for loop.

Number of rows: 4

A B C D E F G H I J

Number of rows: 3

A B C D E F

9. Write a python program to print the following pattern using while loop.

Output:

0 1 2 3 4 5 0 1 2 3 4 0 1 2 3 0 1 2

10. Write a python program to print the following pattern using for loop.

Output:

0 1 2 3 4 5 0 1 2 3 4 0 1 2 3 0 1 2