

# **KARPAGAM COLLEGE OF ENGINEERING**

## **ADVANCED PYTHON PROGRAMMING**

### **REGULAR EXPRESSIONS LAB QUESTIONS**

1. Write a python program to validate Register number of KCE student.

Example 1:

Welcome to KCE!

Enter register number of student : 17T101

Register number is valid.

Example 2:

Welcome to KCE!

Enter register number of student : 17t101

Register number is valid.

Example 3:

Welcome to KCE!

Enter register number of student : N17101

Register number is invalid.

2. Write a python program to extract maximum numeric value from an alphanumeric string.

Examples:

Enter String : 13sdf234f244sdf56

Max value : 244

Enter String: sdsd0dv gdf

Max value: 0

3. Get string x from user.  
String x should not have space between different words  
and the first letter of every word is in uppercase.  
Create new string y from x.  
String y should have space between words.

Solve this problem using regex.

Examples:

Enter String x: RajaGoodInProgram  
String y : Raja Good In Program

Enter String x : KceTopCollegeInCoimbatore  
String y : Kce Top College In Coimbatore

4. Write a python program for password validation.  
Password is a combination of alphanumeric characters along with special characters, and check whether the password is valid or not with the help of few conditions.

Conditions for a valid password are:

- Should have at least one special symbol.
- Should have at least one uppercase one lowercase character.
- Should have at least one number.
- Should be between 5 to 15 characters long.

Enter password : Kce12#  
Valid password.

Enter password : zxc123  
Invalid Password

5. Given an IP address, remove leading zeros from the IP address.

Examples:

Enter IP address: 100.020.003.400  
100.20.3.400

Enter IP address: 001.200.001.004  
1.200.1.4

6. Write a python program to check float number is in correct format.

Enter float number : 2.03  
Correct format

Enter float number : 2.0  
Correct format

Enter float number : 2.  
Invalid format