

Day 9 – Assignments for 20-Dec-17 (Regular Expressions)

1. A website requires the users to input username and password to register. Write a program to check the validity of password input by users.

Following are the criteria for checking the password:

- At least 1 letter between [a-z]
- At least 1 number between [0-9]
- At least 1 letter between [A-Z]
- At least 1 character from [\$#@]
- Minimum length of transaction password: 6
- Maximum length of transaction password: 12

Your program should accept a sequence of comma separated passwords and will check them according to the above criteria. Passwords that match the criteria are to be printed, each separated by a comma.

Example

If the following passwords are given as input to the program:

ABd1234@1,a F1#,2w3E*,2We3345

Then, the output of the program should be:

[ABd1234@1](#)

2. Assuming that we have some email addresses in the "username@companyname.com" format, please write program to print the user name of a given email address. Both user names and company names are composed of letters only.

Example:

If the following email address is given as input to the program:

john@google.com

Then, the output of the program should be:

John

3. Write a program which accepts a sequence of words separated by whitespace as input to print the words composed of digits only.

Example:

If the following words is given as input to the program:

2 cats and 3 dogs.

Then, the output of the program should be:

['2', '3']

4. Write simple a program in python to perform the following:

- Find position of pattern in the text. Print the pattern match position (start and end) for any text.
Sample Text: 'Hi! Welcome to Votary Tech.'
- Write function to replace the string using re module. Take a text as 'Hi! Welcome to Votary Tech.' replace 'Hi!' with 'Hello' and print the substituted text.

5. Suppose, you have a multi-line string like,

```
"commit: 123fgf56hkj78kjl33656eter657
```

```
Author: Linux Build Env <ln@build>
```

```
Date: Wed june 26 10:15 am
```

```
Merge: This is new commit"
```

Write program in Python to perform the following and print as mentioned

- Extract commit, date, author
- Extract "Linux Build env" only
- Extract "<ln@build>"
- Extract whatever present after 'Author:'