

## Lab Exercise-9

### Mobile and Application Development Lab

- (1) Create an application that renders an image from the internet resource (URL) in a ImageView on clicking a button.
- (2) Create an application to retrieve the content of the website "<https://www.juet.ac.in/>" in a string variable 'result'. Also log the contents of the variable.
- (3) You are given 1000 lines of content in the form of a string, and you know that useful data to process further is available after a unique string "wanderlust". How would you filter out useless portion and contain the useful one? Show by writing a Java Program.
- (4) Write a regular expression pattern to match against a dummy string:

"Ajay Singh was not the first chief minister of Madhya Pradesh. [ajay.singh@gmail.com](mailto:ajay.singh@gmail.com) may not be his email address, rather I would go to the point to say that veerbhan singh was also not the first chief minister of the state of Nagaland, [veerbhansingh@yahoo.com](mailto:veerbhansingh@yahoo.com). in fact the truth is this nobody was ever the first chief minister of any state, it was the god who was the only chief of all states [god-god@juet.ac.in](mailto:god-god@juet.ac.in)"

The match should list out only the email addresses from the given string. Also write a java program to show that your identified pattern is indeed the correct one.

- (5) Create an app that would help the new entrants in JUET to know about the faculty members of their department. You can take CSE department for the demonstration purpose. The app should display the photograph of a random faculty from the department, and four buttons should display the four names, of which only the one name corresponds to the faculty member shown in the photograph. On clicking the button, a Toast must be generated showing whether the selected option is correct or not. In case the option is correct, photograph of another random faculty member should be displayed. You can also provide the score counter to keep a count on the correct answers.

More content:

<https://www.coursera.org/lecture/androidapps/case-study-imagedownloader-app-part-2-yVSHX>

<https://developer.android.com/reference/android/os/AsyncTask>

Regular Expression code to extract email addresses from a random string

```
import java.util.Arrays;
import java.util.regex.*;
class XYZ{
    public static void main(String[] args) {
        String result="prateek h@a.in a pand123eyprat@yahoo.com kjjkjk@jk.in";
        String arr[]=result.split(" ");
        System.out.println(Arrays.toString(arr));

        Pattern p=Pattern.compile("[A-Za-z0-9]+@[A-Za-z0-9]+[.]{2,3}");

        Matcher m=p.matcher(result);
        while(m.find())
            System.out.println(m.group(1));
    }
}
```