FORMAL LANGUAGES AND AUTOMATA THEORY TERM PROJECT

We have designed a website about Formal Languages And Automatic Theory in this project. This site is designed to explain a subject matter. First of all, let's explain what is regular expression.

Regular Expression: Short for regular expression, a regex is a string of text that allows you to create patterns that help match, locate, and manage text. However, its only one of the many places you can find regular expressions. Regular expressions can also be used from the command line and in text editors to find text within a file.

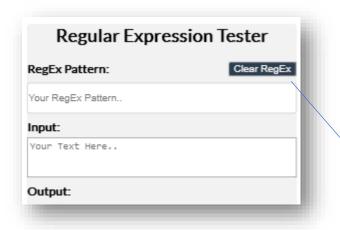
What can you do on this site ?

You can write your own regular expressions on this site, learn the rules and find some useful regular expression patterns.

How to check the RegEx ?

The site has been developed with the JavaScript programming language. RegEx is detected with the following function and then the background color is painted with yellow color.

```
function checkRegEx() {
  var pat = document.getElementById("pattern").value;
  const exp = new RegExp(pat, 'g');
  const str = "<span class=found>$&</span>";
  out.innerHTML = area.value.replace(exp, str);
}
```



You can test the pattern and see the input - output results with this function.

Regular Expression Tester RegEx Pattern: Clear RegEx ([0-2][0-9]|(3)[0-1])(V)(((0)[0-9])|((1)[0-2]))(V)\d{4} Input: Fatih Sultan Mehmet was born in 29/03/1432 and he conquered Istanbul on 29/05/1453. Output: Fatih Sultan Mehmet was born in 29/03/1432 and he conquered Istanbul on 29/05/1453. + What is a Regular Expression ? (RegEx) + Useful Pattern + Cheatsheet Ref: Template, Emrah Tema RegEx, RegEx Tester

Clear the input, output and pattern contents.

