

Maya KarahBala

152122114

Automation theory term project

## 1-Project Topic and materials.

Regular expression games using JAVASCRIPT, HTML and CSS.

## 2- Summary:

explaining regular expression with some simple games like finding pattern match highlighted words or words matches given pattern.

## 3- Applied steps

1- Give brief information about regex in general, regex methods and rules.

2- Test pattern section: allow the user to enter pattern and text and test them.

3- Find pattern section: give the user a small text with highlighted words and ask him to fill pattern field with appropriate pattern.

In this section user can see what its pattern match separately.

4-find word section: give user pattern, small text and number of matching words and ask him to select matching words.

5- reference section: all website used for information and examples.

## 4- Basic methods used in the project

setValues() choose random pattern and text and show them to user.

checkRE() change color of words matching input pattern.

checkTexts() check if the pattern matched all highlighted words.

next() give new question.

add() add selected word to user selection and invoke check result method.

delete () delete the word from user selection and invoke check result method.

## Test Pattern section

Test pattern

Pattern

`\d,*\d`

Text

We have to extract these numbers 12, 47, 48  
The integers numbers are also interesting: 18 2036 31  
"." is a separator, so please extract these numbers 125,789,1450 and also these  
564,90456  
We like to offer you 7890\$ per month in order to complete this task... we are joking  
You are going to learn 3 things, the first one is not to extract, and 2 and 3 are  
simply digits.  
Have fun with our mighty test, you are going to support science, progress, mankind  
wellness and you  
are going to waste 30 or 60 minutes of your life.

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## Find pattern section

Find pattern

Your pattern should match the highlighted words in the text section

Pattern

2,4 Find Double numbers 33 22,33

Text

2,4 Find Double numbers 33 22,33

Next

## Find words section

Find words

Highlight word which matches given pattern and press add

Pattern

`d[iuü][km]`

Text

Geldim gördüm buldum...

add

delete

3

Next