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CSC344 Programming Languages

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Racket Assignment #1: Getting Acquainted with Racket/Dr Racket + LEL Sentence Generation

Abstract: The goal of this first program is to familiarize oneself with Racket/Dr Racket. In order to achieve this, we ran a LEL (little English language) sentence generator. This program generates random words and sentences which the user can define. The program was written to give a full understanding of how the racket syntax and environment works. The code and demo for the LEL sentence generator is placed below.

CODE FOR ASSIGNMENT:

DEMO FOR THE LEL SENTENCE GENERATOR

```
Wekome to DrBacked, version 8 6 [cs]
Language, racked, with debugging, memory imit: 128 MB.
> (pick '(red yellow blue) )
'yellow
> (pick '(red yellow blue) )
'blue
> (pick '(red yellow blue) )
'yellow
> (pick '(red yellow blue) )
'Rust
> (pick '(Racket Prolong Haskell Rust) )
'Racket
> (pick '(Racket Prolong Haskell Rust) )
'Racket
> (pick '(Racket Prolong Haskell Rust) )
'Racket
> (pick '(Racket Prolong Haskell Rust) )
'Yellow
> (pick '(Racket Prolong Haskell Rust) )
'Racket
> (noun)
'(todler)
> (noun)
'(todler)
> (noun)
'(robot)
> (verb)
'(kissed)
> (verb)
'(kissed)
> (verb)
'(chased)
> (roticle)
'(a)
> (article)
'(a)
> (qualifier)
()

'(a)
```

```
()
) (qualifier)
()
) (qualifier)
(ttalking)
) (qualifier)
()
) (qualifier)
()
) (qualifier)
()
) (qualifier)
()
) (qualifier)
() (pualifier)
() (puali
```

```
'(a baby)

'(noun-phrase)
'(a happy baby)

'(sentence)
'(the dog hornswoggled a barking todler)

'(sentence)
'(sentence)
'(sentence)
'(sentence)
'(sentence)
'(sentence)
'(sentence)
'(sentence)
'(a barking dog hornswoggled a laughing baby)

'(sentence)
'(a todling hat kissed a baby)
'(sentence)
'(sentence)
'(sentence)
'(sentence)
'(stotloot kissed a hat)
'(sentence)
'(the robot kissed a hat)
'(sentence)
'(the robot kissed a hat)
'(sentence)
'(the robot kissed a hat)
'(sentence)
'(the barking robot hornswoggled the barking robot)
'(ds)
to a baby hornswoggled a todler
'(ds)
a robot hornswoggled the howling baby
'(ds)
a robot protected a dog
'(ds)
a dancing dog hornswoggled the happy robot
'(ds)
'(ds)
a dancing dog hornswoggled the happy robot
'(ds)
happy baby kissed the robot
'(ds)
happy todler hugged the laughing baby
'(ds)
happy todler hugged the laughing baby
'(ds)
he hat hornswoggled a todler
'(ds)
he hat hornswoggled a todler
'(ds)
he hat hornswoggled a talking dog
'(ds)
he hat hugged a talking dog
'(ds)
```