CSC 344 Programming Languages

# Racket Assignment 3 – Recursion in Racket

Learning Abstract: This assignment aims to explore the concept of recursion and its different applications in Racket. This assignment allowed me to gain a deeper understanding of the practices of recursion and it helped me develop practical skills in Racket.

Task 1 Count down and up Code and Demo:

```
Webcome to DrBesded, version 8 6 (cs)
Language rated, with debugging, memory limit: 128 MB.

(count-up 3)
(count-up 10)

(count-up 20)

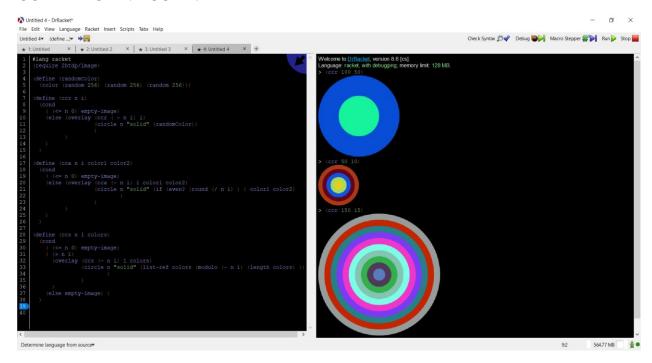
(count-up 20)
```

### Task 2 Triangle of Stars Code and Demo:

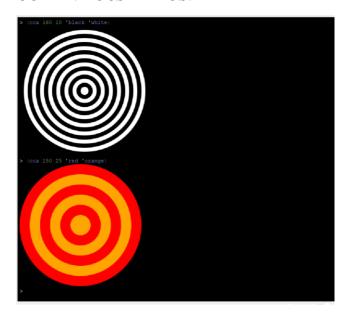
## Task 3 Flip Coin Code and Demo:

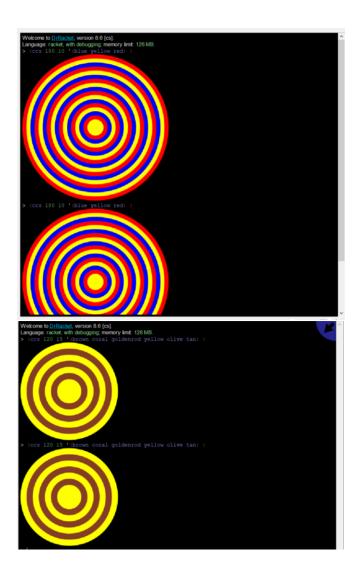
Task 4 Laying down Colorful Concentric Disks Code and Demo:

### **CCR DEMO AND CODE:**



### **CCA AND CCS DEMOS:**





Task 5 Variations on Hirst Dots Code and Demos:

Code:

Untitled 4 - DrRacket\*

### **DEMOS:**



