Khadi Valieva ~ CSC 408 ~ Classwork 14
cw14_pr1.rkt

```scheme
#lang scheme
(define (sum-odd-numbers lst)
  (define (odd? n) (not (= (modulo n 2) 0)))
  (define odd-numbers (filter odd? lst))
  (apply + odd-numbers))


(define (run-tests)
  (display "Test for: 1 2 3 4 5 6 7 8 9 10: ")
  (newline)
  (display (sum-odd-numbers '(1 2 3 4 5 6 7 8 9 10)))
  (newline)(newline)
  (display "Other Tests")
  (newline)
  (display "Test 1: 11 12 13 14 15")
  (newline)
  (display (sum-odd-numbers '(11 12 13 14 15)))
  (newline)
  (display "Test 2: { }")
  (newline)
  (display (sum-odd-numbers '()))
  (newline)
  (display "Test 3: 2 4 6 8")
  (newline)
  (display (sum-odd-numbers '(2 4 6 8)))
  (newline)
)

(run-tests)
```

Welcome to DrRacket, version 8.14 [cs].
Language: scheme, with debugging; memory limit: 128 MB.
Test for: 1 2 3 4 5 6 7 8 9 10:
25

Other Tests
Test 1: 11 12 13 14 15
39
Test 2: { }
0
Test 3: 2 4 6 8
0
>

cw14_pr2.rkt

```scheme
#lang scheme

(define (area-of-ring outer-radius thickness)
  (let* ((inner-radius (- outer-radius thickness))
         (pi 3.14159)
         (area (* pi (- (* outer-radius outer-radius) (* inner-radius inner-radius)))))
    area))

(define (round-to-2-decimals num)
  (round (* num 100.0)))

(display "Enter the outer radius: ")
(define outer-radius (read))
(display "Enter the thickness: ")
(define thickness (read))


(define area (area-of-ring outer-radius thickness))
(define rounded-area (round-to-2-decimals area))
(display "The area of the circular ring is: ")
(display (/ rounded-area 100.0))
(newline)
```

Welcome to DrRacket, version 8.14 [cs].
Language: scheme, with debugging; memory limit: 128 MB.
Enter the outer radius: 5
Enter the thickness: 1
The area of the circular ring is: 28.27
>