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# Assignment 5

    # 1 addition(a, b)

        addition <- function(a,b) {
        return(a+b)
        }

        print(addition(5,3))
        # Output: 8

    # 2 subtraction(a, b)

        subtraction <- function(a,b) {
          return(a-b)
        }

        print(subtraction(8,3))
        # Output: 5

    # 3 multiplication(a, b)

        multiplication <- function(a,b) {
          return(a*b)
        }

        print(multiplication(4,3))
        # Output: 12

    # 4 division(a, b)

        division <- function(a,b) {
          if(b==0)
          {
            return (0)
          }
          return(a/b)
        }

        print(division(9,3))
        # Output: 3

    # 5 simple_interest(principal, rate, time)

        simple_interest <- function(principal, rate, time) {
          return ((principal * rate * time) / 100)
        }

        print(simple_interest(1000, 5, 2))
        # Output: 100

    # 6 compound_interest(principal, rate, time, n)

        compound_interest <- function(principal, rate, time, n) {
          return (principal * (1 + rate / (n * 100))^(n * time) - principal)
        }

        print(compound_interest(1000, 5, 2, 4))
        # Output: 104.0816

    # 7 celsius_to_fahrenheit(celsius)

        celsius_to_fahrenheit <- function(celsius) {
          return ((celsius * 9/5) + 32)
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}

print(celsius_to_fahrenheit(0))
# Output: 32

# 8 fahrenheit_to_celsius(fahrenheit)

fahrenheit_to_celsius <- function(fahrenheit) {
  return ((fahrenheit - 32) * 5/9)
}

print(fahrenheit_to_celsius(32))
# Output: 0

# 9 lbs_to_rs(lbs, rate_per_lb)

lbs_to_rs <- function(lbs, rate_per_lb) {
  return (lbs * rate_per_lb)
}

print(lbs_to_rs(10, 50))
# Output: 500

# 10 area_circle(radius)

area_circle <- function(radius) {
  return (pi * radius^2)
}

print(area_circle(7))
# Output: 153.938

# 11 perimeter_rectangle(length, width)

perimeter_rectangle <- function(length, width) {
  return (2 * (length + width))
}

print(perimeter_rectangle(5, 10))
# Output: 30
```