```
1
products <- list(
 list(name = "Apple", price = 0.5),
 list(name = "Banana", price = 0.3),
 list(name = "Milk", price = 2),
 list(name = "Bread", price = 1.5),
 list(name = "Eggs", price = 2.5)
shopping cart <- list()</pre>
cart items to add <- list(
 list(name = "Apple", quantity = 3),
 list(name = "Milk", quantity = 2)
)
for (item in cart items to add) {
 product name <- item$name</pre>
 quantity <- item$quantity
 product <- NULL
 for (p in products) {
  if (p$name == product name) {
```

```
product <- p
   break
  }
 }
 if (!is.null(product)) {
  cart item <- list(name = product$name, price =
product$price, quantity = quantity)
  shopping cart <- c(shopping cart, list(cart item))
  cat(sprintf("Added %d %s to cart.\n", quantity,
product$name))
 } else {
  cat(sprintf("Product '%s' not found.\n", product name))
 }
}
subtotal <- 0
cat("\nReceipt:\n")
for (item in shopping cart) {
 item subtotal <- item$price * item$quantity
 cat(sprintf("%s (%d units) - Price: $%.2f - Subtotal:
$%.2f\n", item$name, item$quantity, item$price,
         item subtotal))
 subtotal <- subtotal + item subtotal
}
```

tax_rate <- 0.08

tax_amount <- subtotal * tax_rate</pre>

total_cost <- subtotal + tax_amount</pre>

cat("\nSubtotal: \$%.2f\n", subtotal)

cat("Tax Amount (8%%): \$%.2f\n", tax_amount)

cat("Total Cost: \$%.2f\n", total_cost)