```
3
# Create an empty data frame
inventory data <- data.frame(
 Item = character(),
 Quantity = numeric()
# Add an item to the inventory
add_item <- function(item, quantity) {</pre>
 inventory_data <<- rbind(inventory_data, data.frame(</pre>
  Item = item.
  Quantity = quantity
 ))
 cat("Item added to inventory.\n")
}
# Update the quantity of an item
update quantity <- function(item, new quantity) {</pre>
 if (item %in% inventory_data$Item) {
  inventory_data$Quantity[inventory_data$Item == item]
<<- new quantity
  cat("Quantity updated.\n")
 } else {
  cat("Item not found in inventory.\n")
 }
}
```

```
# Display the inventory
display inventory <- function() {
 cat("Inventory Items and Quantities:\n")
 print(inventory_data)
# User interface
repeat {
 choice <- as.integer(readline("\n1. Add Item\n2. Update
Quantity\n3. Display Inventory\n4. Exit\n"))
 if (choice == 1) {
  item <- readline("Enter item name: ")
  quantity <- as.numeric(readline("Enter quantity: "))
  add item(item, quantity)
 } else if (choice == 2) {
  item <- readline("Enter item name: ")
  new quantity <- as.numeric(readline("Enter new quantity:
"))
  update quantity(item, new quantity)
 } else if (choice == 3) {
  display inventory()
 } else if (choice == 4) {
  cat("Goodbye!\n")
  break
```

```
} else {
  cat("Invalid choice.\n")
}
```