

```

all_products <- list(
list(name="Apple",price=0.5),
list(name="Banna",price=0.3),
list(name="Milk",price=2),
list(name="Bread",price=1.5),
list(name="Eggs",price=2.5)
)

cat(sprintf("Name\tPrice\n"))
cat(sprintf("=====\n"))
for(i in all_products)
  cat(sprintf("%s\t%s\n",i$name,i$price))

shopping_cart<-list()

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$name
  qnty<-item$quantity

  product<-NULL
  for(p in all_products)
  {
    if(p$name==product_name){
      product<-p
      break
    }
  }

  if(!is.null(product))
  {
    cart_item<-list(name=product$name,price=product$price,quantity=qnty)
    shopping_cart<-append(shopping_cart,list(cart_item))
    cat("Item added to cart.\n")
  }else{
    cat("Product not found.\n")
  }
}

subtotal<-0
cat("\nReceipt:\n")
cat("=====\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
total_cost_before_tax<-subtotal
total_cost<-total_cost_before_tax+tax_amount

cat(sprintf("\nSubtotal:%$.2f\n",subtotal))
cat(sprintf("Tax Amount (8pc):%$.2f\n",tax_amount))
cat(sprintf("Total cost:%$.2f\n",total_cost))

```