```
function [totalInvestment, ...
            totalRevenue, ...
            totalValue, ...
            portfolioModl ...
            = calcInvestment(...
                portfolio, ...
                exchange)
   % This function will search
    % through the transaction
    % history of the specified
    % portfolio and add up all the
    % buy and sell values to determine
   % the total amount of money that
   % has been invested and the total
   % that has been returned from sales.
    % This will also calculate the total
    % value of the portfolio at the present
    % time.
   totalInvestment = 0;
   totalRevenue = 0;
   totalValue = 0;
   % Calculate total investment and
    % total revenue.
    for i = (1:size(portfolio.transactions,1))
        if (strcmp(portfolio.transactions(i,1), 'BUY'))
            totalInvestment = totalInvestment ...
                + portfolio.transactions{i,11};
        elseif(strcmp(portfolio.transactions(i,1), 'SELL'))
            totalRevenue = totalRevenue ...
                + portfolio.transactions{i,11};
        else
            % Error.
        end
   end
    % Calculate the total value of the
    % portfolio.
    % Loop through all the stock symbols in
    % the portfolio.
    for i = (1:length(portfolio.stockSymbols))
        % Search exchange for corresponding symbol.
        [flag,currentStock] = getStockData exchange(...
            exchange,portfolio.stockSymbols(i));
        if(flag == 0)
            % Error. Stock not found in exchange.
            totalInvestment = -1;
            totalRevenue = -1;
```

```
totalValue = -1;
        return;
    else
        totalValue = totalValue...
            + (currentStock.currentPrice...
            * portfolio.stockShares(i));
    end
end
% Save information to the portfolio.
portfolio.totalInvestment = totalInvestment;
portfolio.totalRevenue = totalRevenue;
portfolio.totalValue = totalValue;
% Make sure to return the
% updated portfolio struct.
portfolioMod = portfolio;
return;
```

end