USER-DEFINED FUNCTIONS

Introduction

This assignment would help to work with user defined functions involving loops and data frames. Demonstrate using a program to find the total amount of items per unit purchased from a grocery store. To accomplish this, create a data frame named "bill", which consists of three vectors "item_names", "item_qty", and "unit_price". The total amount per item needs to be calculated and stored in another vector named "total_amt" which has to be appended to the final data frame and returned from the function.

Objective

To understand loops, data frames, and functions returning values.

Self-Assessment Questions

Steps involved:

a) Create a data frame named "bill" which is composed of three vectors:

- "item_name"
- "item_qty"
- "unit_price"

b) Create a function which takes a data frame as an argument

c) Calculate the amount per item, create two empty vectors to store the "no of items" and "price per unit"

d) Calculate the result and store it in a new vector "total_amt"

e) Use loops to perform the above steps

f) Append the resultant vector to the existing data frame and create a new data frame

g) Return the new data frame "final_bill"