**COMSATS University Islamabad,**

**Lahore Campus**

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**Programming Fundamentals**

**LAB TASK 02**

**Exercise 3:** While purchasing certain items, a discount of 10% is offered if the quantity purchased is more than 1000. If quantity and price per item are input through the keyboard, write a program to calculate the total expenses.

**Flowchart:**

Start

INPUT Rate, Quantity, Discount = 0

Discount = 10%

Yes

No

If

Quantity>1200

TotalExpenses =

Rate\*Quantity - (Rate\*Quantity\*Discount)

Print TotalExpenses

End

**C Code:**

#include <stdio.h>

#include <stdlib.h>

/\* This program is prepared by Syed Asad Jamil. Reg no. SP22-BSE-123. Section: B on 27/03/2022

(This Program find total expenses with discount of 5% if quantity is more than 1000). \*/

int main()

{

int quantity;

float TotalExpenses, Expenses, price, discount;

printf("Enter Quantity Purchased : ");

scanf("%d",&quantity);

printf("Enter price per item : ");

scanf("%f",&price);

if(quantity>1000)

{

Expenses=quantity\*price;

discount=0.1\*Expenses;

TotalExpenses=Expenses-discount;

printf("TotalExpenses = %f",TotalExpenses);

}

else

{

TotalExpenses=quantity\*price;

printf("TotalExpenses = %f",TotalExpenses);

}

return 0;

}

**Output:**

When Quantity is more than 1200

Graphical user interface, text

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When Quantity is less than 1200

Graphical user interface, text

Description automatically generated