CENG 114 – Computer Programming Spring 2020 – 2021

Homework #1

Due Date: 12 March 2021 until midnight

- Imagine you cultivate and sell roses. You cultivate roses only in 5 colors. (Red, Pink, White, Yellow, Black)
- You need a menu based program for your shop to track rose commerce.
- You should be able to do the following operations:
 - Check current stock information
 - Update stocks
 - Update prices
 - Sell product (with stock control)
 - Check current cash information
- Notes:
 - Initial stocks:

Red Rose: 0
Pink Rose: 0
White Rose: 0
Yellow Rose: 0
Black Rose: 0
- Initial prices:
Red Rose: 5 TL
Pink Rose: 6 TL
White Rose: 7 TL

Yellow Rose: 8 TL Black Rose: 20 TL

• Use the following functions :

- printMainMenu()
 - printStockInformation()
 - printProductPrices()
 - printProductS()
 - pri

return: if stock is enough return 1, else return 0

- updateStocks()- updatePrices()Changes products stocks- Changes products prices

sell() Check the stock, sell products, then update stocks and arrange a bill
 calculateBill() Prints 'productPrice x numberOfRequested = resultant.' message.

parameters: 'productPrice' and 'numberOfRequested'

return: resultant value.

- addMoney() Prints 'Add x TL to cash register.' message and update total cash.

parameters: resultant from the bill

- You can add other functions, but you have to implement all the functions listed above.

CENG 114 – Computer Programming Spring 2020 – 2021

Homework #1

Due Date: 12 March 2021 until midnight

Sample Run: (inputs are marked as bold) OPERATIONS : 1. Stock Info 2. Update Stocks 3. Update Prices 4. Sell 5. Current cash info 6. Quit Select your operation : 2 *********** Current Stock Information: 1. Red Rose: 0 2. Pink Rose: 0 3. White Rose: 0 4. Yellow Rose : 0 5. Black Rose: 0 *********** Select product : 2 Enter stock for 'Pink Rose' product: 55 *********** Current Stock Information: 1. Red Rose: 0 2. Pink Rose: 55 3. White Rose: 0 4. Yellow Rose : 0 5. Black Rose: 0 *********** OPERATIONS : 1. Continue update stock 2. Return main menu

Select your operation : 2

CENG 114 – Computer Programming Spring 2020 – 2021

Homework # 1

Due Date: 12 March 2021 until midnight

OPERATIONS :	
1. Stock Info 2. Update Stocks 3. Update Prices	
4. Sell	
5. Current cash	info
6. Quit	
Select your oper	ration : 3
******	*******
Prices :	
	1. Red Rose : 5 TL
	2. Pink Rose : 6 TL
	3. White Rose : 7 TL
	4. Yellow Rose : 8 TL
	5. Black Rose : 20 TL
******	******
Select product :	: 2
Enter new price	for 'Pink Rose' product : 3
******	******
Prices :	
	1. Red Rose : 5 TL
	2. Pink Rose : 3 TL
	3. White Rose : 7 TL
	4. Yellow Rose : 8 TL
	5. Black Rose : 20 TL
******	******
OPERATIONS :	
1. Continue upda 2. Return main m	
Select your operation : 2	
OPERATIONS :	

1. Stock Info

CENG 114 – Computer Programming Spring 2020 – 2021

Homework #1

Due Date: 12 March 2021 until midnight

```
2. Update Stocks
3. Update Prices
4. Sell
5. Current cash info
6. Quit
Select your operation : 4
***********
Products:
             1. Red Rose - 5 TL - (0)
             2. Pink Rose - 3 TL - (55)
             3. White Rose - 7 TL - (0)
             4. Yellow Rose - 8 TL - (0)
             5. Black Rose - 20 TL - (0)
*************
Select product : 2
Enter how many 'Pink Rose' products are requested: 15
15*3=45.
Add 45 TL to cash register.
***********
Products:
             1. Red Rose - 5 TL - (0)
             2. Pink Rose - 3 TL - (40)
             3. White Rose - 7 TL - (0)
             4. Yellow Rose - 8 TL - (0)
             5. Black Rose - 20 TL - (0)
************
OPERATIONS :
1. Continue selling
2. Return main menu
Select your operation : 1
************
Products:
             1. Red Rose - 5 TL - (0)
```

Pink Rose - 3 TL - (40)
 White Rose - 7 TL - (0)

CENG 114 – Computer Programming Spring 2020 – 2021

Homework #1

Due Date: 12 March 2021 until midnight

4. Yellow Rose - 8 TL - (0) 5. Black Rose - 20 TL - (0)

Select product : 5

Enter how many 'Black Rose' products are requested: 15

SORRY... 'Black Rose' product is out of stock.

OPERATIONS :

1. Continue selling

2. Return main menu

Select your operation : 2

OPERATIONS :

1. Stock Info

- 2. Update Stocks
- 3. Update Prices
- 4. Sell
- 5. Current cash info
- 6. Quit

Select your operation : 5

Current cash information: 45 TL

OPERATIONS :

- 1. Stock Info
- 2. Update Stocks
- 3. Update Prices
- 4. Sell
- 5. Current cash info
- 6. Quit

Select your operation : 6

Bye!

CENG 114 – Computer Programming Spring 2020 – 2021

Homework # 1

Due Date: 12 March 2021 until midnight

NOTES:

This coding assignment should

- Compile and run without any errors, otherwise you do not get any points!
- Be done **INDIVIDUALLY!**
- Include comments to explain your program.
- Be indented correctly and carefully.
- Be easy to follow.
- Work for all possible inputs.
- Give your student id to your source file name. Otherwise, you will loose 10 points from your grade. (e.g. 200111032 hw.c)