CS-586 SOFTWARE SYSTEM ARCHITECTURE

PROJECT

Gas Pump

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A. Goal of Project:

The goal of this project is to design two different *GasPump* components using the Model-Driven Architecture (MDA) and then implement these *GasPump* components based on this design.

Description of the Project:

There are two GasPump components: GasPump-1 and GasPump-2.

The **GasPump-1** component supports the following operations:

```
Activate (float a, float b)
                              // the gas pump is activated where a is the price of the Regular gas
                                and b is the price of Super gas per gallon
Start()
                              //start the transaction
PayCredit()
                              // pay for gas by a credit card
                              // credit card is rejected
Reject()
Cancel()
                              // cancel the transaction
                              // credit card is approved
Approved()
                              // Super gas is selected
Super()
Regular()
                              // Regular gas is selected
StartPump()
                              // start pumping gas
                              // one gallon of gas is disposed
PumpGallon()
StopPump()
                              // stop pumping gas
```

The **GasPump-2** component supports the following operations:

```
Activate (int a, int b, int c)
                               // the gas pump is activated where a is the price of Regular gas, b is
                                the price of Premium gas and c is the price of Super gas per liter
                               //start the transaction
Start()
PayCash(int c)
                               // pay for gas by cash, where c represents prepaid cash
                               // cancel the transaction
Cancel()
Premium()
                              // Premium gas is selected
Regular()
                              // Regular gas is selected
                              // Super gas is selected
Super()
StartPump()
                              // start pumping gas
PumpLiter()
                              // one liter of gas is disposed
Stop()
                              // stop pumping gas
Receipt()
                              // Receipt is requested
NoReceipt()
                              // No receipt
```

1. Model Driven Architecture of the ACCOUNT Components

This section includes all the MDA-EFSM model for the GasPump components along with a list of the events for the MDA-EFSM, a list of actions for the MDA-EFSM, a State diagram of the MDA-EFSM, and pseudo-code for all of the operations of the input processors of GasPump-1, GasPump -2.

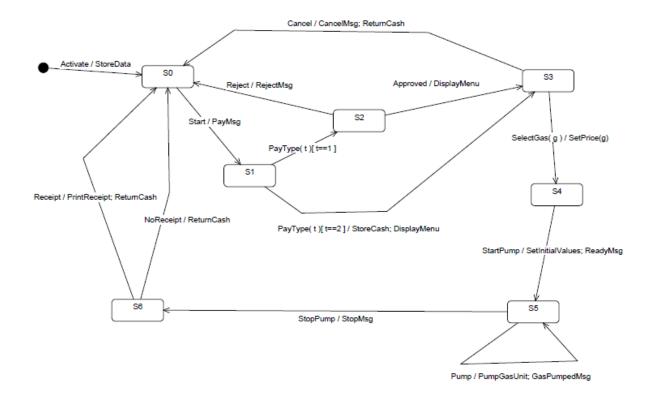
LIST OF MDA-EFSM EVENTS:

MDA-EFSM Events:
Activate()
Start()
PayType(int t) //credit: t=1; cash: t=2
Reject()
Cancel()
Approved()
StartPump()
Pump()
StopPump()
StopPump()
SelectGas(int g)
Receipt()
NoReceipt()

List of MDA-EFSM Actions:

```
StoreData
                             // stores price(s) for the gas from the temporary data store
                             // displays a type of payment method
PayMsg
StoreCash
                             // stores cash from the temporary data store
                             // display a menu with a list of selections
DisplayMenu
RejectMsg
                             // displays credit card not approved message
SetPrice(int g)
                             // set the price for the gas identified by g identifier
ReadyMsg
                             // displays the ready for pumping message
                             // set G (or L) and total to 0
SetInitialValues
PumpGasUnit
                             // disposes unit of gas and counts # of units disposed
                              // displays the amount of disposed gas
GasPumpedMsg
StopMsg
                             // stop pump message and receipt? msg (optionally)
PrintReceipt
                             // print a receipt
CancelMsg
                             // displays a cancellation message
ReturnCash
                             // returns the remaining cash
```

A state diagram of the MDA-EFSM



MDA-EFSM for Gas Pumps

GasPump 1

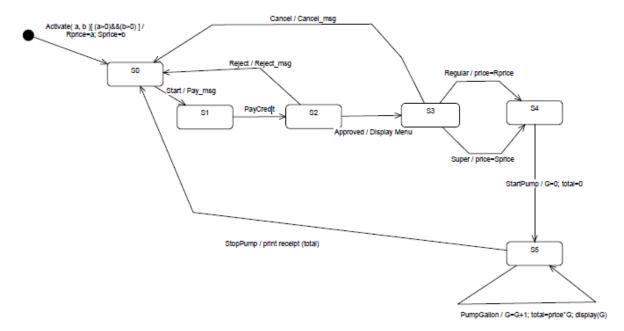


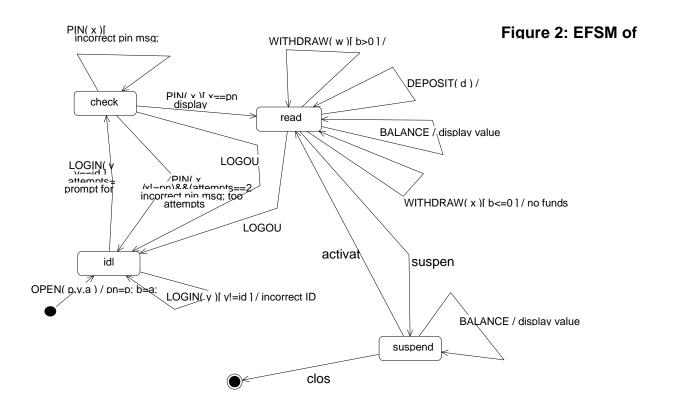
Figure 1: EFSM for GasPump-1

Operations of the Input Processor

(GasPump-1)

```
}
Cancel() {
m->Cancel();
Approved() {
m->Approved();
 Super() {
m->SelectGas(2)
*_____*
Regular() {
m->SelectGas(1)
*_____*
StartPump() {
m->StartPump();
else m->IncorrectUnlock();
*_____*
PumpGallon() {
m->Pump();
StopPump() {
m->StopPump();
m->Receipt();
*_____*
Notice:
m: is a pointer to the MDA-EFSM object
d: is a pointer to the Data Store object
```

GasPump 2



Operations of the Input Processor

(GasPump-2)

```
*_____*
Activate(int a, int b, int c) {
    if ((a>0)&&(b>0)&&(c>0)) {
        d->temp_a=a;
        d->temp_b=b;
        d->temp_c=c
        m->Activate()
    }
}

*_____*

*Start() {
    m->Start();
}

*_____*

PayCash(float c) {
    if (c>0) {
        d->temp_cash=c;
```

```
m->PayType(2)
Cancel() {
m->Cancel();
}
*_____*
Super() {
m->SelectGas(2)
*_____*
Premium() {
m->SelectGas(3)
*_____*
Regular() {
m->SelectGas(1)
}
*_____*
StartPump() {
m->StartPump();
}
*_____*
PumpLiter() {
if (d->cash<(d->L+1)*d->price)
m->StopPump();
else m->Pump()
*_____*
Stop() {
m->StopPump();
}
*_____*
Receipt() {
m->Receipt();
*_____*
NoReceipt() {
m->NoReceipt();
}
```

Notice:
cash: contains the value of cash deposited
price: contains the price of the selected gas
L: contains the number of liters already

pumped cash, L, price are in the data store m: is a pointer to the MDA-EFSM object d: is a pointer to the Data Store object

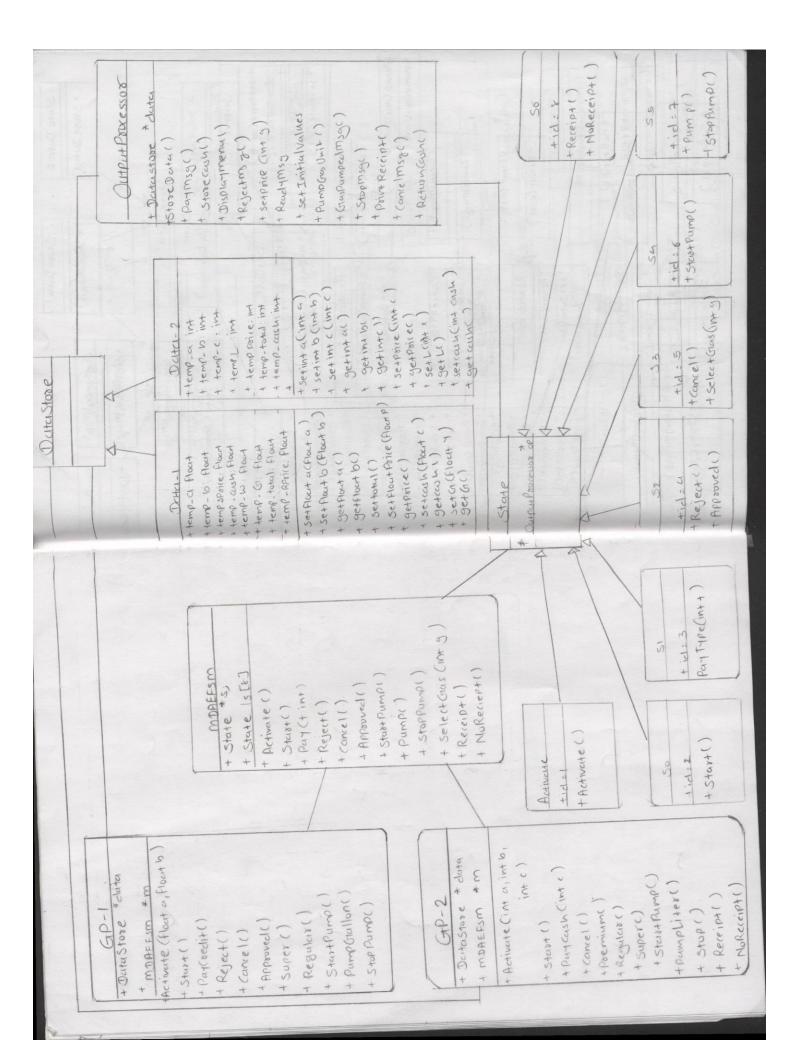
2. Class diagram(s) of the MDA and of the ACCOUNT components.

This section includes class diagrams. Due to complexity of showing the class diagram as a whole, the class diagram is show in parts as follows.

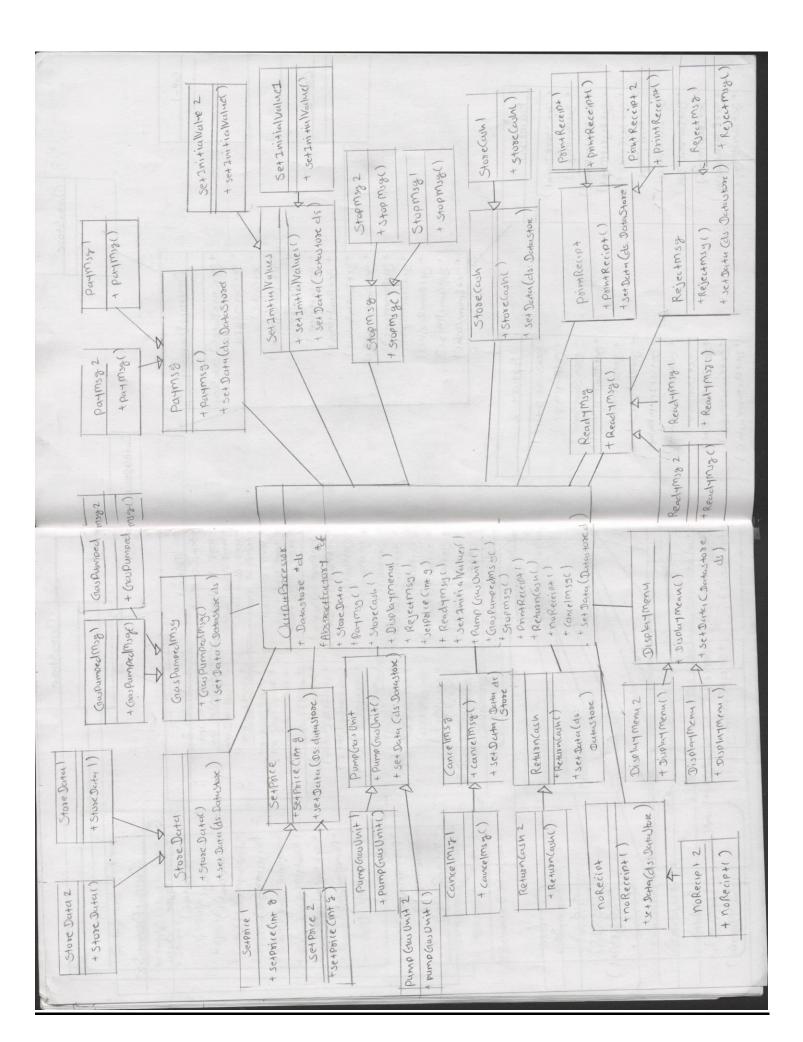
Note: Due to complexity of diagrams methods and variables of repeating classes are not written again

- 1. State Pattern
- 2. Strategy Pattern
- 3. Abstract Factory Diagram

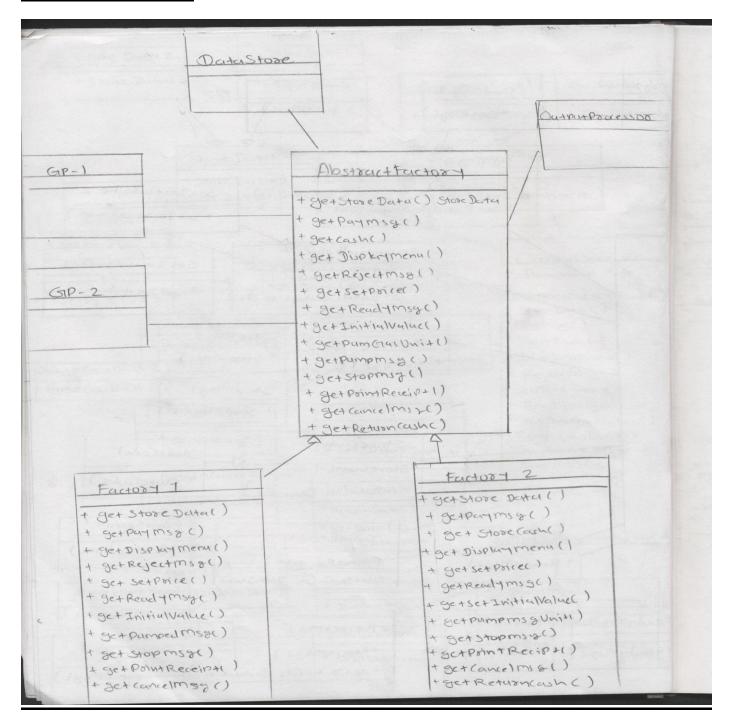
State Pattern



Strategy Pattern



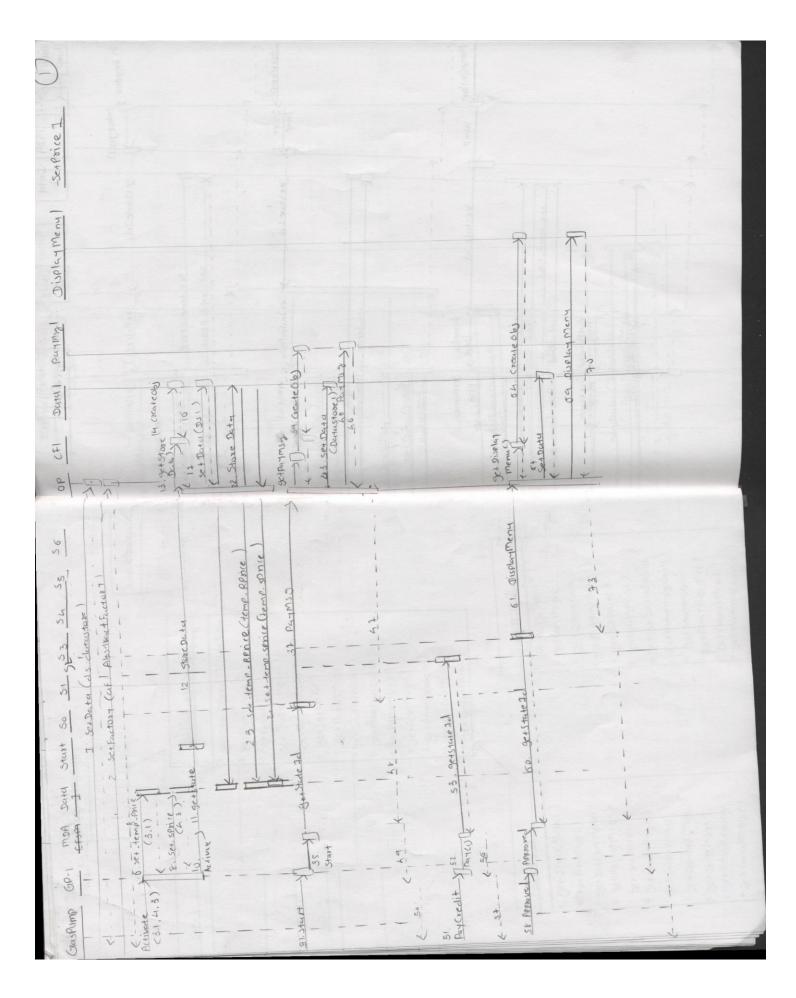
Abstarct Pattern

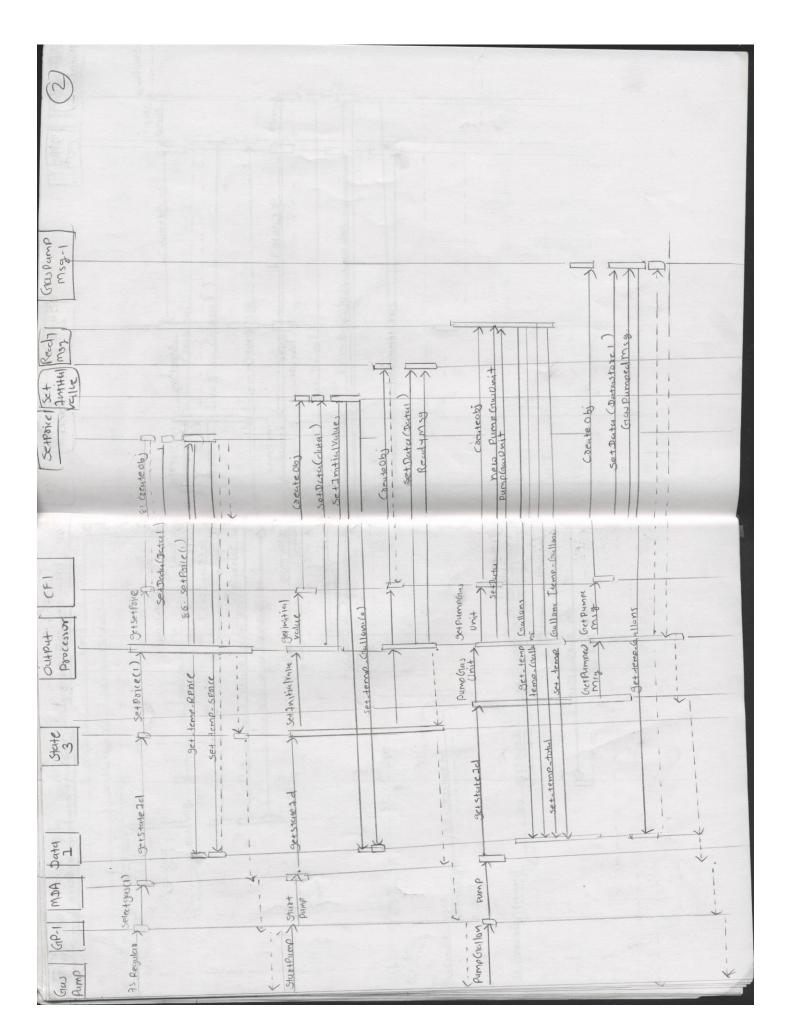


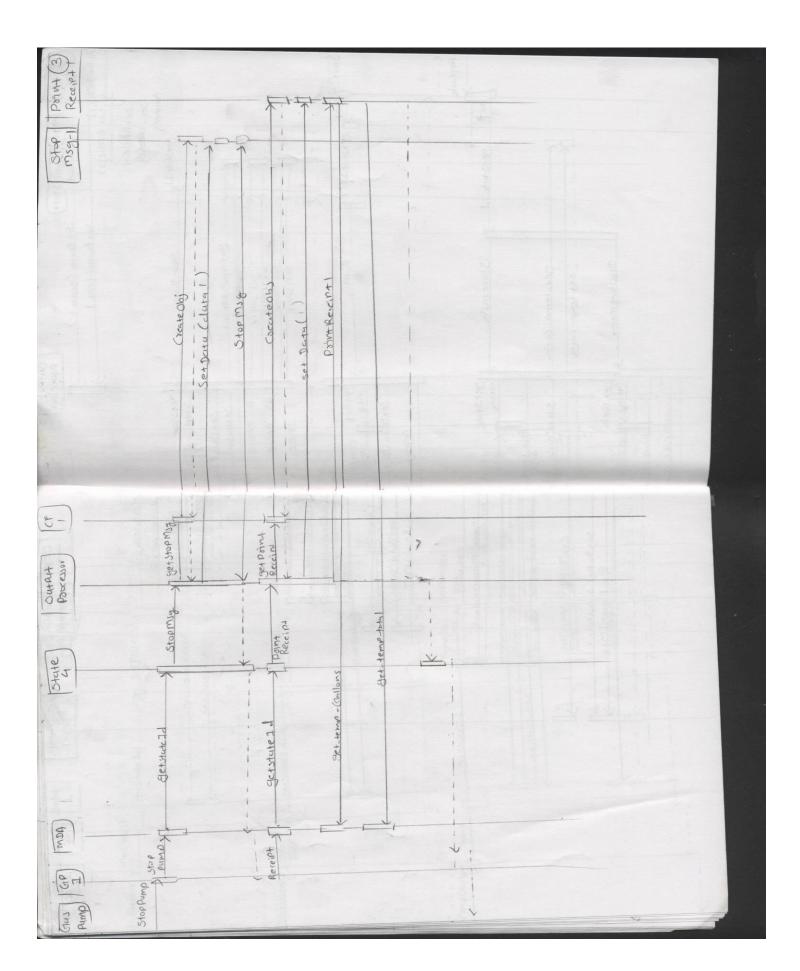
3. Dynamics

Provide two sequence diagrams for two Scenarios:

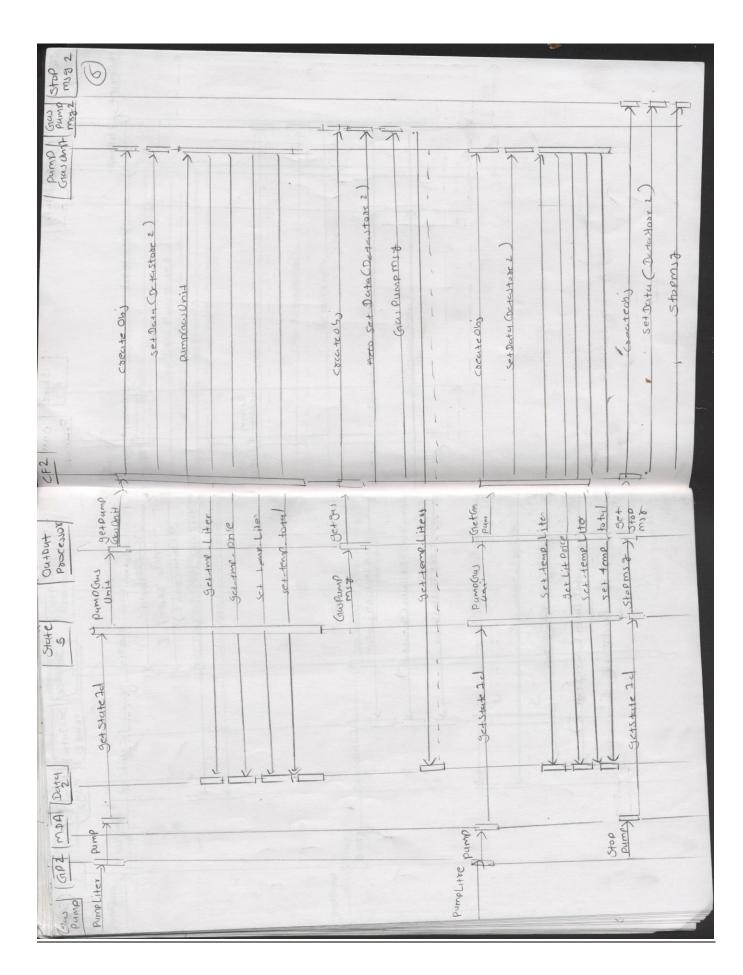
A. Scenario-I should show how one gallon of Regular gas is disposed in GasPump-1, i.e., the following sequence of operations is issued: Activate(3.1, 4.3), Start(), PayCredit(), Approved(), Regular(), StartPump(), PumpGallon(), StopPump()

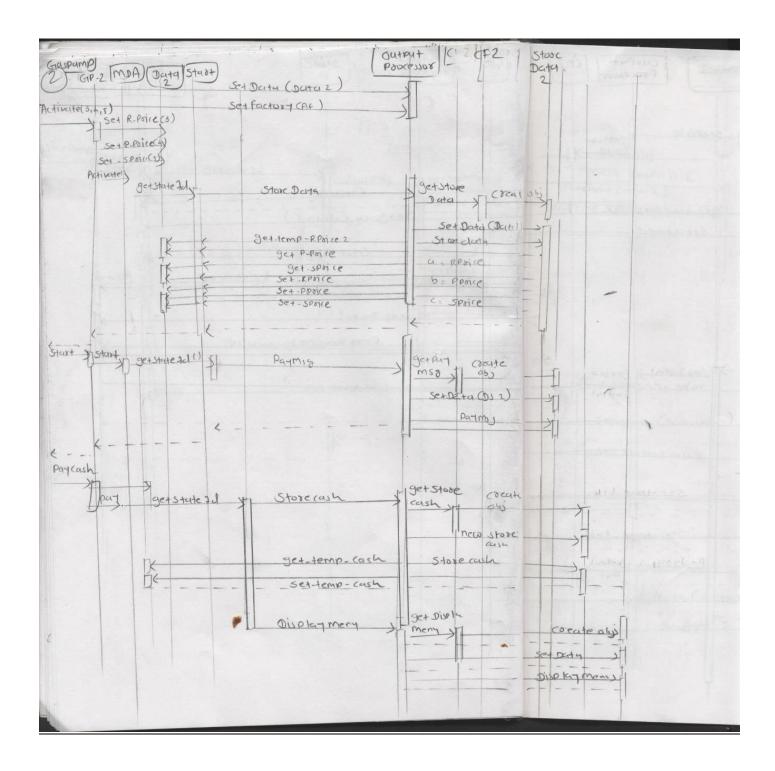


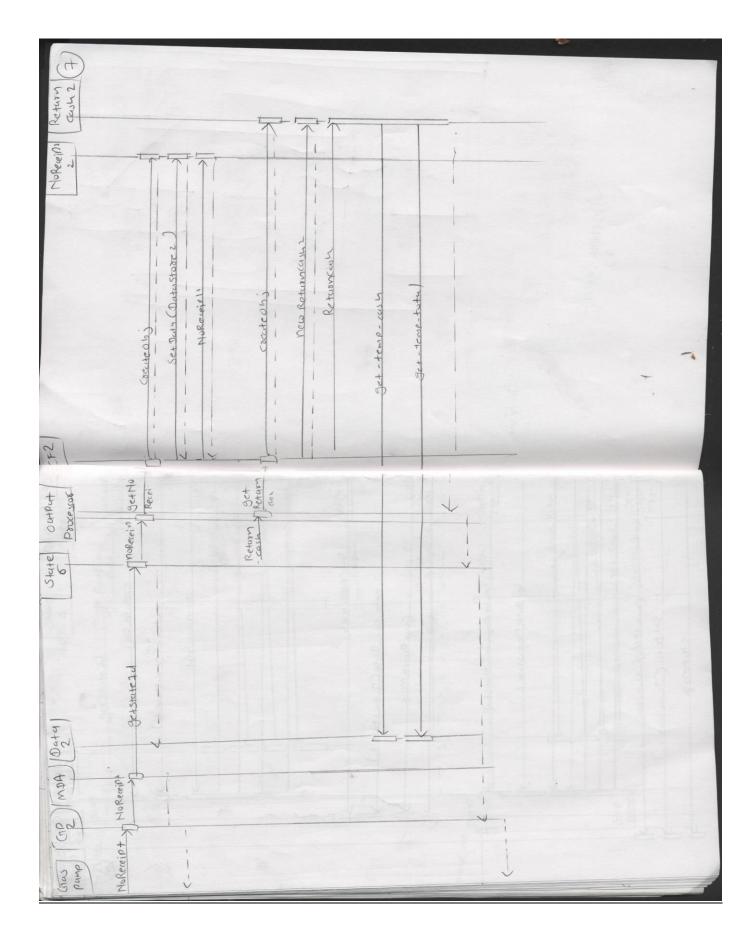




A.	Scenario-II should show how one liter of Premium gas is disposed in GasPump-2, i.e., th following sequence of operations is issued: Activate(3, 4, 5), Start(), PayCash(6), Premium(), StartPump(), PumpLiter(), PumpLiter(), NoReceipt()







5. Pattern Description

This part of the report should clearly indicates which parts of the source code are responsible for the implementation of the three required design patterns:

- state pattern
- strategy pattern
- abstract factory pattern.

Patterns have been outlined within various class diagrams within Section 3, and Section 5 also contains identification of which patterns each class belongs to in the source comments.

Below is an additional summary of objects and their usage;

1.State Pattern

- State Machine Context Class me
- State Abstract Class all_states
- State Concrete Classes Activate, s0,s1,s2,s3,s4,s5,s6,s7
- Output (Client)Class- op

2.Strategy Pattern

Strategy Abstract Class

PayMsg

StoreCash

DisplayMenu

RejectMsg

SetPrice(int g)

ReadyMsg

SetInitialValues

PumpGasUnit

GasPumpedMsg

StopMsg

PrintReceipt

CancelMsg

3. Abstract Factory

Abstract Factory Class – AF

- Concrete Factory Classes –CF1, CF2
- Client Classes GP1, GP2, OP

Other Classes within Implementation (7 Classes)

- Abstract Data Store Class data
- Concrete Data Store Classes data1,data2
- Platform Depended Input Processor Classes GP1, GP2

- Meta Model (PIM) Class MDAEFM
- Driver maindriver

3. Description of all the class in the system :

- a. The purpose of the class, i.e., responsibilities.
- b. Responsibility of each operation supported by each class.
- c. The purpose of main attributes of the class.

Purpose, Methods Class Operations and Parameters

CLASS 1

NAME: GP1 //Input processor of the system

TYPE Concrete Class

VARIABLES MDA_Object is a pointer to the class which is MDAEFSM

dataObjectis a pointer to the Data_Base class which is data store

dataObjectis a pointer to the af class which is Abstartc FActory

METHODS void setdata(Data_Base x) //sets data

void setMDA(MDAEFSM x) // to change state according to current operation

All other Methods // Pseudo code is called out in section 1 Model Driven

Architecture.

CLASS 2

NAME: GP2 //Input processor of the system

TYPE Concrete Class

VARIABLES MDA_Object is a pointer to the class which is MDAEFSM

dataObjectis a pointer to the Data_Base class which is data store

dataObjectis a pointer to the af class which is Abstartc FActory

METHODS void setdata(Data_Base x) //sets data

CLASS 3

NAME: MDAEFSM// Meta Model (PIM) Class

TYPE Concrete Class

VARIABLES States c_state; // holds the present state

States[] ls = new States[8]; // holds the value of the state

METHODS void setStatesList (all_states s) // sets the current state of system

void Activate() // points towards next state when this method selected

void Start() // points towards next state when this method selected

void PayCash() // points towards next state when this method selected

void PayCredit() // points towards next state when this method selected

void Approved() // points towards next state when this method selected

void Reject() // points towards next state when this method selected

void SelectGas(int g) // points towards next state when this method this method selected

void Cancel() // points towards next state when this method selected

void StartPump() // points towards next state when this method selected

void Pump() // points towards next state when this method selected

void StopPump() // points towards next state when this method selected

void Receipt() // points towards next state when this method selected

void NoReceipt () // points towards next state when this method selected

NAME: ActivateStates // GasPump is started **TYPE Concrete Class VARIABLES** METHODS void Activate ()//used for activate gaspump *_____* CLASS 5 s0state// gaspump start from here NAME: **TYPE Concrete Class VARIABLES METHODS** void Start ()//System moves to idle state CLASS 6 NAME: s1state // System is in ready state to perform various operations **Concrete Class TYPE VARIABLES METHODS void** PayType (int t)//Service provided to to do payment **CLASS 7** NAME: s2state //Approve and reject the payment **TYPE Concrete Class VARIABLES** void Approved ()//Approve the payment **METHODS**

void Reject()//Reject the payment

*	
	CLASS 8
NAME:	s3state // it used for cancel the payment
ТҮРЕ	Concrete Class
VARIABLES	
METHODS	void Cancel()//cancel the payment
	void SelectGas(int g)//Select gas type Regular/Premium/Super
*	<u>CLASS 9</u>
NAME:	s1 // This denotes the sixth state of program
ТҮРЕ	Concrete Class
VARIABLES	-
METHODS *	void WithdrawBelowMinBalance()/ //Works when amount to be withdrawn in below minimum balance
	CLASS 10
NAME:	s4state//used to start the gas pump
ТҮРЕ	Concrete Class
VARIABLES	-
METHODS *	void StartPump() //It is used to start the pump
	CLASS 11
NAME:	s5state// used for stop the pump
ТҮРЕ	Concrete Class
VARIABLES	-
METHODS	void StopPump () // stop the pump

CLASS 12 NAME: s6state// used for printing receipt/noreceipt **TYPE Concrete Class VARIABLES METHODS** void Receipt () // print the receipt void NoReceipt () // do not print receipt void ReturnCash () // display remaining cash amount CLASS 13 **States** //states class NAME: **TYPE Concrete Class VARIABLES METHODS** //ALL THE BELOW MENTIONED ARE State CLASS METHODS publicvoid storevaluey(String y); //Storethe value of y public void Activate(){} //Activate the gas pump public void Start(){} //Start the pump public void PayCash(){} //Pay the cash public void PayCredit(){} //Payment through creditcard //approvethe creditcard public void Approved(){} public void Reject(){} public void SelectGas(int g){} public void Cancel(){} public void StartPump(){} public void Pump(){} public void StopPump(){} public void Receipt(){} public void NoReceipt(){} public void ReturnCash(){} -----*

CLASS 13

NAME: Data_Base1

TYPE Concrete Class

VARIABLES

static float temp_a; //Store temporary value of a(Regular Gas) static float temp_b; //Store temporary value of b(Super Gas) static int W; //it is flag

static float price; static float cash; static float total; static float G;

static float reg_price;
static float sup_price;

METHODS public void setfloata(float a)

public void setfloatb(float b)

public float getfloata()
public float getfloatb()
public void setintc(int c)

public int getintc()

public void settotal(float c)
public float gettotal()

public void setprice(float y)

public float getprice()
public void setcash(float a)

public float getcash()
public void setG(float y)

public float getG()

public void setsup_price(float y)

public float getsup_price()

public void setreg_price(float y)

public float getreg_price()
public void setintW(int a)

public int getintW()

*______

CLASS 14

NAME: Data_Base2// used for store data of GasPump 2

TYPE Concrete Class

VARIABLES static float temp_a;

static float temp_b;

static float temp_c; static float L; static float reg1_price; static float pre_price; static float sup_price; static float cash; static float total; static float price;

METHODS

static float temp a; static float temp_b; static float temp c; static float L; static float reg1_price; static float pre_price; static float sup_price; static float cash; static float total; static float price; public float getprice() public void setprice(float y) public void setfloata(float a) public void setfloatb(float b) public float getfloatb() public float getfloata() public void setfloatc(float c) public float getfloatc() public void setL(float a) public float getL() public void setpre_price(float a) public float getpre_price() public void setreg1_price(float a) public float getreg1_price() public void setsup_price(float a) public float getsup_price() public void setcash(float a) public float getcash() public float gettotal() public void settotal(float a)

*_____;

CLASS 15

NAME: Data_Base// used for stop the pump

TYPE Abstract Class

VARIABLES

METHODS static float temp_a;

static float temp_b; static float temp c;

static float L;

static float reg1 price; static float pre_price; static float sup_price; static float cash: static float total; static float price; public float getprice() public void setprice(float y) public void setfloata(float a) public void setfloatb(float b)

public float getfloatb() public float getfloata() public void setfloatc(float c) public float getfloatc()

public void setL(float a) public float getL()

public void setpre_price(float a) public float getpre_price()

public void setreg1_price(float a)

public float getreg1_price() public void setsup price(float a)

public float getsup_price() public void setcash(float a) public float getcash() public float gettotal()

public void settotal(float a)

_____*

CLASS 16

maindriver// used for Handling all main functions NAME:

Concrete Class TYPE

VARIABLES

METHODS void Main() // Main methods reside inthis class

NAME: GP1// used for stop the pump

TYPE Concrete Class

VARIABLES af afObject; // Object of abstract factory

MDAEFSM MDA_Object; // Object of MDAEFSM class

Data_Base dataObject; // Pointer to the class Database

METHODS PayCredit() // Used for credit card apyment

public void setdata(Data_Base x) // set data into database class

setMDA(MDAEFSM x) // set events class MDAEFSM

setfactory(af x) // set factory

CLASS 18

NAME: GP2// used for stop the pump

TYPE Concrete Class

VARIABLES af afObject; // Object of abstract factory

MDAEFSM MDA_Object; // Object of MDAEFSM class

Data_Base dataObject; // Pointer to the class Database

METHODS PayCredit() // Used for credit card apyment

public void setdata(Data_Base x) // set data into database class

setMDA(MDAEFSM x) // set events class MDAEFSM

setfactory(af x) // set factory

*------

CLASS 19

NAME: s5state// used for stop the pump

TYPE Concrete Class VARIABLES METHODS void StopPump () // stop the pump void Pump () // used to pumping the gas CLASS 20 NAME: MDAEFSM// used for stop the pump **TYPE Concrete Class**

METHODS NoReceipt()

VARIABLES

Receipt(int a) StopPump() Pump() StartPump() Cancel()

SelectGas(int g)

Reject() Approved() PayCredit() PayCash() Start()

setStatesList() setStates(States a)

Activate()

CLASS 21

OPER// used for Operation of the gaspump NAME:

TYPE Concrete Class

VARIABLES

METHODS setPrice(int g)

storeCash()

setfactory(af af1)
returnCash()
setData(Data_Base d1)
storeData()
displayMenu()
cancelMsg()
rejectMsg()
printReceipt()
gasPumpedMsg()
pumpGasUnit()
readyMsg()
stopMsg()
setInitialValues()
setW(int k)
NoReceipt()

payMsg()

CLASS 22

NAME: CancelMsg// used for cancel the msg

TYPE Abstract Class

VARIABLES -Data_Base data_Object;

METHODS cancelMsg();

setdata(Data_Base dt)

CLASS 23

NAME: CancelMsg1// used for cancel msg for gaspump 1

TYPE Concrete Class

VARIABLES -

METHODS cancelMsg1();

NAME:	DisplayMenu// used for display the menu
ТҮРЕ	Abstract Class
VARIABLES	-Data_Base data_Object;
METHODS	DisplayMenu (); setdata(Data_Base dt)
*	*
	<u>CLASS 25</u>
NAME:	DisplayMenu1// used for display the menu for gaspump 1
TYPE	Concrete Class
VARIABLES	-
METHODS	displayMenu1 ();
*	*
	CLASS 26
NAME:	DisplayMenu2 // used for display the menu for gaspump 2
TYPE	Concrete Class
VARIABLES	-
METHODS	displayMenu2 ();
	*
	<u>CLASS 27</u>
NAME:	GasPumpedMsg// used for pump the gas

TYPE

Abstract Class

VARIABLES	-Data_Base data_Object;
METHODS	<pre>gasPumpedMsg (); setdata(Data_Base dt)</pre>
*	*
	CLASS 28
NAME:	GasPumpedMsg1 // use for pumping gaspump 1
ТҮРЕ	Concrete Class
VARIABLES	-
METHODS	<pre>gasPumpedMsg1 ();</pre>
*	*
	CLASS 29
NAME:	GasPumpedMsg 2// use for pumping gaspump 2
ТҮРЕ	Concrete Class
VARIABLES	-
METHODS	<pre>gasPumpedMsg ();</pre>
*	*
	CLASS 30
NAME:	NoReceipt// used for when there is no need of receipt
ТҮРЕ	Abstract Class
VARIABLES	-Data_Base data_Object;
METHODS	noReceipt (); setdata(Data_Base dt)

*		_*
	CLASS 31	
NAME:	NoReceipt1// used for when there is no need of receipt for GP1	
TYPE	Concrete Class	
VARIABLES	-	
METHODS	noReceipt1();	
*		.*
	CLASS 32	
NAME:	NoReceipt2// used for when there is no need of receipt for GP2	
TYPE	Concrete Class	
VARIABLES	-	
METHODS	noReceipt2();	
*		_*
	CLASS 33	
NAME:	PayMsg// used for disply pay msg the pump	
TYPE	Abstract Class	
VARIABLES	-Data_Base data_Object;	
METHODS	<pre>payMsg (); setdata(Data_Base dt)</pre>	
Ψ		4

NAME:	PayMsg 1// used for disply pay msg the pump gaspump 1
TYPE	Concrete Class
VARIABLES	-
METHODS	<pre>payMsg1();</pre>
*	
	CLASS 35
NAME:	PayMsg2// used for disply pay msg the pump gaspump 2
TYPE	Concrete Class
VARIABLES	-
METHODS	payMsg2();
*	
	CLASS 36
NI A NATE.	
NAME:	PrintReceipt// It use for printing the receipt
TYPE	Abstract Class
VARIABLES	-Data_Base data_Object;
METHODS	<pre>printReceipt(); setdata(Data_Base dt)</pre>
*	·
	<u>CLASS 36</u>
NAME:	<pre>PrintReceipt1// It use for printing the receipt 1</pre>
TYPE	Concrete Class
VARIABLES	-
METHODS	<pre>printReceipt1 ();</pre>
*	
	<u>CLASS 37</u>
NAME:	PrintReceipt2 // It use for printing the receipt 2

TYPE	
VARIABLES	-
METHODS	<pre>printReceipt2();</pre>
*	
	CLASS 37
NAME:	PumpGasUnit// Used for count the pumping units the pump
ТҮРЕ	Abstract Class
VARIABLES	-Data_Base data_Object;
METHODS	pumpGasUnit ();
	• •
	setdata(Data_Base dt)
	• •
	setdata(Data_Base dt)
	setdata(Data_Base dt)
*	setdata(Data_Base dt)
* <u>NAME:</u>	Setdata(Data_Base dt) CLASS 38 PumpGasUnit1 Used for count the pumping units the pump 1
* <u>NAME:</u> TYPE	Setdata(Data_Base dt) CLASS 38 PumpGasUnit1 Used for count the pumping units the pump 1
** NAME: TYPE VARIABLES METHODS	CLASS 38 PumpGasUnit1 Used for count the pumping units the pump 1 Concrete Class -
** NAME: TYPE VARIABLES METHODS	CLASS 38 PumpGasUnit1 Used for count the pumping units the pump 1 Concrete Class - pumpGasUnit1();
** NAME: TYPE VARIABLES METHODS	CLASS 38 PumpGasUnit1 Used for count the pumping units the pump 1 Concrete Class - pumpGasUnit1();
** NAME: TYPE VARIABLES METHODS *	CLASS 38 PumpGasUnit1 Used for count the pumping units the pump 1 Concrete Class - pumpGasUnit1(); CLASS 39
** NAME: TYPE VARIABLES METHODS *	CLASS 38 PumpGasUnit1 Used for count the pumping units the pump 1 Concrete Class pumpGasUnit1(); CLASS 39 PumpGasUnit2// Used for count the pumping units the pump 2

NAME:	ReadyMsg// used fordisplaying the ready msg
TYPE	Abstract Class
VARIABLES	-Data_Base data_Object;
METHODS	readyMsg (); setdata(Data_Base dt)
*	*
	CLASS 40
NAME:	ReadyMsg1// used for displaying the ready msg for gaspump1
ТҮРЕ	Concrete Class
VARIABLES	-
METHODS	readyMsg1();
*	*
	<u>CLASS 41</u>
NAME:	ReadyMsg2// used for displaying the ready msg for gaspump2
TYPE	Concrete Class
VARIABLES	-
METHODS	readyMsg2();
*	*
	<u>CLASS 41</u>
NAME:	ReturnCash// used return the cash fro gaspump
TYPE	Abstract Class
VARIABLES	-Data_Base data_Object;
METHODS	returnCash ();

setdata(Data_Base dt)

*	
	CLASS 42
NAME:	ReturnCash1// // used return the cash fro gaspump 1
TYPE	Concrete Class
VARIABLES	-
METHODS	returnCash ();
т	
	<u>CLASS 43</u>
NAME:	RejectMsg// used for reject the the payment method credit
ТҮРЕ	Abstract Class
VARIABLES	-Data_Base data_Object;
METHODS	rejectMsg ();
	setdata(Data_Base dt)
*	
	CLASS 44
NAME:	RejectMsg1 // used for reject the the payment method credit
ТҮРЕ	Concrete Class
VARIABLES	-
METHODS	rejectMsg ();
*	
	<u>CLASS 45</u>
NAME:	SetInitialValues// used set the initials value
ТҮРЕ	Abstract Class
VARIABLES	-Data_Base data_Object;
METHODS	setInitialValues ();

setdata(Data_Base dt)

*	*
	<u>CLASS 46</u>
NAME:	SetInitialValues1// used set the initials value for gaspump 1
TYPE	Concrete Class
VARIABLES	-
METHODS	setInitialValues();
*	*
	<u>CLASS 47</u>
NAME:	SetInitialValues2// used set the initials value for gaspump 2
ТҮРЕ	Concrete Class
VARIABLES	-
METHODS	setInitialValues();
*	*
	CLASS 48
NAME:	SetPayType// used to set the pay type(credit/cash)
TYPE	Abstract Class
VARIABLES	-Data_Base data_Object;
METHODS	setPayType (); setdata(Data_Base dt)
*	*
	CLASS 48
NAME:	SetPayType1// used to set the pay type(credit/cash)
ТҮРЕ	Concrete Class
VARIABLES	-
METHODS	<pre>setPayType ();</pre>

*	*
	CLASS 49
NAME:	SetPayType2// used for payment method cash
TYPE	Concrete Class
VARIABLES	-
METHODS	setPayType ();
*	*
	CLASS 50
NAME:	StoreData// used for stor the data
TYPE	Abstract Class
VARIABLES	-Data_Base data_Object;
METHODS	storeData(); setdata(Data_Base dt)
*	**************************************
	CLASS 51
NAME:	StoreData1// used for store the data for gaspump 1
TYPE	Concrete Class
VARIABLES	-
METHODS	storeData();
*	*
	CLASS 52
NAME:	StoreData2// used for store the data for gaspump 2
ТҮРЕ	Concrete Class
VARIABLES	-
METHODS	storeData();