Part 1 UML DIAGRAM

Part 2 UML DIAGRAM

StockItem

- fixStockCode : String = "W101"

quantityInStock : int = 10stockItemPrice : double = 99.99

+ StockItem ()

+ StockItem (newStockCode : String,

newQuantityInStock: int,

newStockItemPrice: double)

+ getStockCode(): String

+ getQuantityInStock(): int

+ setStockItemPrice(newStockItemPrice: double): void

+ getStockItemPrice(): double

+ getStockName(): String

+ getStockDescription(): String

+ getVAT(): double

+ getPriceWithoutVAT(): double

+ getPriceWithVAT(): double

+ addStock(aStock : int) : boolean

+ sellStock(sStock : int) : Boolean

+ toString(): String



TestStockItem

+ main(String [] args): static void

StockItem

- fixStockCode : String = "W101"

- quantityInStock : int = 10

- stockItemPrice : **double** = 99.99

+ StockItem ()

+ StockItem (newStockCode : String,

newQuantityInStock: int,

newStockItemPrice: double)

+ getStockCode() : **String**

+ getQuantityInStock(): int

+ setStockItemPrice(newStockItemPrice: double): void

+ getStockItemPrice(): double

+ getStockName(): String

+ getStockDescription(): String

+ getVAT(): double

+ getPriceWithoutVAT(): double

+ getPriceWithVAT(): double

+ addStock(aStock : int) : boolean

+ sellStock(sStock : int) : Boolean

+ toString(): String

TestStockItem

+ main(String [] args): static void

NavSys

+ NavSys ()

+ NavSys (nev

newNavStockCode: **String**, newnavQuantityInStock: **int**,

newNavStockItemPrice: double)

+ getStockName(): **String**

+ getStockDescription(): String

+ toString(): String

BrakePad

-BrakePad (stockCode : **String**, quantityInStock : **int**,

price : double)

+ getStockName() : **String**

+ getStockDescription(): String

+ toString(): String

StockItem

- fixStockCode : String = "W101"

- quantityInStock : int = 10- stockItemPrice : double = 99.99

+ StockItem ()

+ StockItem (newStockCode : String,

newQuantityInStock : **int**, newStockItemPrice : **double**)

+ getStockCode() : String
+ getQuantityInStock() : int

+ setStockItemPrice(newStockItemPrice: double): void

+ getStockItemPrice(): double + getStockName(): String

+ getStockDescription(): String

+ getVAT(): double

+ getPriceWithoutVAT() : **double**

+ getPriceWithVAT(): double

+ addStock(aStock : int) : boolean + sellStock(sStock : int) : Boolean

+ toString(): **String**

Tyre

+ Tyre (stockCode : **String**, quantityInStock : **int**,

price : double)

+ getStockName(): String

+ getStockDescription(): **String**

+ toString(): String

Exhaust

+ Exhaust (stockCode : **String**, quantityInStock : **int**.

price : **double**)

+ getStockName(): String

+ getStockDescription(): String

+ toString(): String



TestPolymorphisim

+ itemInstance(StockItem s): static void

+ main(String [] args) : static void

