**Input**

* + Number of puppies - textbox
  + Number of Days - textbox
  + Price per Kilo of SPF – textbox
  + Details of each puppy - Inputbox

**Output**

* + Details of puppy - grid
    - Name
    - Weight each day
    - Total food feed
  + Total Food for all puppies – textbox
  + Total money spent – textbox

|  |  |
| --- | --- |
| **Events** | **Action** |
| btnSetup | Read number of days and puppies. The price per kilo of food.  Resize the array  Resize the grid  Create the objects of each puppy |
| btnReadinAndDisplay | Read details of each puppy and display name and weight to each puppy to the grid |
| btnDeterminetotalFoodperPuppy | Determine the total food per puppy each day and total overall. This information will then be displayed |
| btnTotalFoodandCost | Determine the total kilo need and the cost to be display in textboxes. |

**Variables**

* numDays – Integer
* numPuppies – Integer
* PriceperKilo – double
* Puppies() – puppy
* d - Integer
* p - Integer

Interface

grdDisplay

Frmtut4

txtNumDays

txtnumPuppies

Num Puppies

txtPricePerKilo

Price per Kilo

Num Days

btnSetup

btnReadinAndDisplay

txtFoodTotal

btnDeterminetotalFoodperPuppy

txtMoney

Total Food

btnTotalFoodandCost

Total Money

**Algorithm**

**btnSetup**

Read in the number of puppies, days and price per kilo of food through textboxes

Resize the puppies(numPuppies)

For each puppy

Create a new object – Puppies(p) = new Puppy(numDays)

Resize grid to match display of name , weight and total

**btnReadinAndDisplay**

for each puppy

Read and store in name, gender, breed age

Display the name inn grid

For each day

Read and store the weight of the puppy

Display the weight of the puppy each day in grid

Next

Next

**btnDeterminetotalFoodperPuppy**

for each puppy

total = Puppies(p). FoodConsumed()

Display total in the grid

Next

btnTotalFoodandCost

total = 0

for each puppy

total += puppies(p). FoodConsumed()

next

total = total / 1000

Display the total food eaten

Kilo += Cint(total /1000)

If (kilo mod 1000 > 0) then

Kilo += 1

End if

TotalPrice = Kilo \* PricePerKilo

Display total Price

**UML Class Diagram**

|  |
| --- |
| Puppy |
| * + - \_Name: String     - \_Breed : String     - \_Gender : String     - \_Age : Double     - \_Weight[1…\*]:Integer |
| <<Constructor>>  + Puppy(numdays:Integer)  <<Property>>  +Name():String  +Breed():String  +Gender():String  +Age():Double  +Weight(index:Integer) : Integer  <<Methods>>  +FoodConsumed(): Double |

**Test Data**

