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Description automatically generated**University Islamabad, Lahore Campus**

**Block–C, Department of Computer Science**

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**Assignment (non-graded)**

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A collage of different fruits

Description automatically generated with low confidence

We discussed the above hierarchy in class. Create this hierarchy in which **Fruit**, **Citrus** and **Melon** are abstract classes. **Kinu**, **Malta**, **Kharbooza** and **Tarbooz** are concrete classes. The driver class called **FruitTest**, should create an array of **Fruit**, instantiate one fruit of each type, store its reference in this array and finally traverse the array to calculate amount of VitaminC and antioxidants that we will get. The weight of each fruit will be passed as command line argument as follows:

arg[0] is weight of **Kinu**, arg[1] is weight of **Malta**, arg[2] is weight of **Kharbooza**, arg[3] is weight of **Tarbooz**

Assume **Malta** has 2% Vitamin C, **Kinu** has 3% Vitamin C, **Kharbooza** has .001% antioxidants and **Tarbooz** has .008% antioxidants.

The output of the program should generate a report of how much Vitamin C and antioxidants will we get if we eat the four fruits in the amounts provided on command line.

C:\mydate> java FruitTest 100 110 400 5000

You will get 5.3 gm of Vitamin C

You will get .404 gm of antioxidants