**Ex7\_1 – Solutions**

*Method 1:*

public static int banana(int[] a) {

int kiwi = 1;

int i = 0;

while (i < a.length) {

kiwi = kiwi \* a[i];

i++;

}

return kiwi;

}

*What the method does:*

This method takes an array of integer values and uses them with an iterator, to multiply another integer variable that is declared within the method, which then gets returned to the user.

*Roles of the variables:*

**int[] a:** a reference that represents the array that the user has sent to the method.

**int kiwi**: is used to store the value that gets returned to the user.

**int i**: is used as the initialiser for the while loop, it’s identical to the first part of a for loop.

*Method 2:*

public static int grapefruit(int[] a, int grape) {

for (int i = 0; i < a.length; i++) {

if (a[i] == grape) {

return i;

}

}

return -1;

}

*What the method does:*

This method loops through an array of integers to see if another integer, matches any of the elements inside the array.

*Roles of the variables:*

**int[] a**: a reference to an array, which stores the integers that will be compared to grape.

**int grape**: an integer variable that stores the value which will be used for comparison with the elements in the array.

**int i**: is used as the initialiser for the loop.

*Method 3:*

public static int pineapple(int[] a, int apple) {

int pear = 0;

for (int pine : a) {

if (pine == apple) {

pear++;

}

}

return pear;

}

*What the method does:*

Returns the number of elements in the array, which are the same as ‘apple’.

*Roles of the variables:*

**int[] a**: a reference to an integer array, that sores the values which will be compared to the 2nd integer variable.

**int apple**: a reference to an integer variable that stores the value which will be compared with the elements in the array.

**int pear**: an integer variable, that stores the number of times the value of the apple varisble is matched with one of the elements in the array.