

Software Design & Development: Revision Questions 5

1. A data file contains the details of bank accounts held by Ayrshire Bank. The data includes the account number, account name and balance.

An extract is shown below:

```
00743271, Clare Green, 2539.67
01356273, James Kerr, 1087.32
```

There are 10000 accounts in the csv file. The bank wants to find out how many accounts have a balance of more than 2000.

- (a) The data from the file is imported into an array of records
 - (i) Using a programming language of your choice, define a suitable record structure.
 - (ii) Using a programming language of your choice, declare a variable that can store the data for 10000 accounts.
- (b) Using a programming language of your choice, write the code to count the number of accounts with a balance of over 2000

2. A data file contains the details of pupil numbers in different schools. The data includes the school name, school region and number of pupils.

An extract is shown below:

```
Blair Academy, Aberdeenshire, 1260
Port High School, Highland, 785
```

There are 500 schools in the csv file.

- (a) The data from the file is imported into an array of records
 - (i) Using a programming language of your choice, define a suitable record structure.
 - (ii) Using a programming language of your choice, declare a variable that can store the data for 500 accounts.
- (b) Using a programming language of your choice, write the code to find the name of the school with the highest number of pupils

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(c) Using a programming language of your choice, write the code to find the name of the school with the lowest number of pupils.