

(b) (i) Identify the object-oriented programming (OOP) feature whose function includes restricting external access to the data.

..... [1]

(ii) Describe what is meant by the OOP feature **inheritance**.

.....  
.....  
.....  
..... [2]

12 The pseudocode algorithm checks whether a location in a stock file `StockList.dat` is empty or not. The location is given by the user. If the location is empty, a suitable message is displayed, otherwise the item stored at that location is displayed.

Complete this file-handling pseudocode algorithm.

```
DECLARE Location : INTEGER
DECLARE Item : STRING
DECLARE Continue : BOOLEAN
DECLARE Answer : CHAR
Continue ← TRUE
```

```
OPENFILE .....
WHILE Continue
    OUTPUT "Enter a location between 1 and 500: "
    INPUT Location
```

```
.....
    GETRECORD .....
    IF Item = "" THEN
        OUTPUT "This record is missing."
    ELSE
        OUTPUT "The item in stock is ", .....
    ENDIF
    OUTPUT "Another location (Y or N)?"
    INPUT Answer
    IF Answer <> 'Y' THEN
        Continue ← FALSE
    ENDIF
ENDWHILE
```

```
.....
OUTPUT "End of program"
```