

(a) Emma has written an algorithm in pseudocode. This is shown in the diagram below. The code contains a subroutine.

- Line numbers are included but are not part of the algorithm

```
1  SUBROUTINE functionA(aTemperature)
2      temp <- (aTemperature * 9)/5 + 32
3      RETURN temp
4  ENDSUBROUTINE
5
6  OUTPUT "Enter the current temperature"
7  theTemp <- USERINPUT
8
9  OUTPUT "Enter F for Fahrenheit or C for Celsius"
10 units <- USERINPUT
11
12 IF units = "F" THEN
13     theTemp <- functionA(theTemp)
14     OUTPUT "Temperature in Celsius is " + theTemp
15 ENDIF
```

(i) Define the term algorithm.

[2 marks]

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(ii) units is a variable used in the main program in Emma's algorithm.

Write down the line number where units is declared

[1 mark]

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(iii) Define the term variable as it is used in computer programming.

[2 marks]

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(iv) temp is is a local variable used in the algorithm. State the data type used for temp.

[1 mark]

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(v) Explain what the term local variable means.

[2 marks]

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(vi) Write down one line number where user input takes place

[1 mark]

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(vii) Write down the line number where selection is first used in the algorithm

[1 mark]

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(viii) Write down the line numbers which make up the subroutine in the algorithm

[1 mark]

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(ix) Explain why the name given to the subroutine in the code may be confusing.

[2 marks]

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