

Plan an algorithm for each question before you start to write your code.

1. Write a program based on the following pseudocode:

```

GET exam mark

IF mark is invalid
    DISPLAY error message
ELSE IF mark > 40
    DISPLAY "You have passed"
ELSE
    DISPLAY "You have failed"
  
```

2. Write a program that will read in the balance of an account and will display one of two possible messages, depending on the value of accountBalance.
Your account is overdrawn by ? euro if the balance is less than 0 or **Your account is in credit by ? euro** if not.
3. Using a suitable *control structure*, write a Java program that asks the user to enter a **phvalue**, and will display the appropriate message depending on the ph value entered:

phvalue	
Between 0 and 7	Acidic
Between 7 and 14	Alkaline
Value of exactly 7	Neutral
Above 14 or less than 0	Invalid entry

4. Write a program that will prompt the user to enter their gross income and their marital status (M for Married; S for single), and will tell them which tax band they are in as follows:

Income	Marital Status	Tax Band
Under 20000	S	A
Under 20000	M	B
Over 20000	S	C
Over 20000	M	D

5. Adapt the program above so that it accepts upper case or lower case input for the marital status and the tax band.