

Selection tasks

Task 1 - Temperature conversion

Turn the following pseudo code into a Python program:

```
temperature=input("Enter a temperature")
choice=input("Enter c to convert to centigrade or f to convert to fahrenheit")
if choice == 'c' then
    result=(temperature -32)* 5/9
else
    result=(temperature*9/5)+32
end if
print ("The converted temperature is ",result)
```

Task 2 - Grade calculator

Turn the following pseudo code into a Python program:

```
mark = input("Enter your test mark")
maxMark = input("Enter the maximum mark possible")
percentage = (mark/maxMark) * 100
if percentage > 95 then
    print("Well done, grade 9!")
else if percentage > 90 then
    print("Well done, grade 8!")
else if percentage >= 40 then
    print("Well done, you passed with at least a grade 4")
end if
```



Task 3

Modify the program you created for Task 2, so that if the student got at least 75 but no more than 90 percent, the message printed is "Well done, grade 7!", at least 60 and no more than 75 is "Well done, grade 6", and at least 50 and no more than 60 prints "Well done, grade 5".

For a score below 40, the program prints "You got a grade below 4".

Task 4

Turn the following pseudo code into a Python program:

```
mathsGrade=input("What GCSE grade did you get for Maths?")
csGrade=input("What GCSE grade did you get for Computer Science?")
if mathsGrade>=6 then
    if csGrade>=6 then
        print("I recommend you study Computer Science A Level")
    else
        print("You can study Computer Science A Level, but I recommend you practice
            programming over the summer holidays before you start the course.")
    end if
else
    print("You are not eligible to study Computer Science A Level")
end if
```

Task 5

Write a Python program that asks the user 3 quiz questions, each with 4 possible answers, a, b, c and d. The program should get the answer from the user for each question and tell them if they got the answer right or wrong. For each question answered correctly the player gets 3 points. When the three questions have been answered the program displays the final score.

Task 6

Modify your answer for Task 5, so that if they get the answer to a question wrong they get a second chance to answer the question. If they get the answer right the first time, they get three points, but if they get the answer right the second time they get 1 point. This should happen for all three questions.

