

QUESTION ONE

Suppose a student has taken end-of-term exams in Math, English, Science, and Social Studies, and their scores are stored in four variables as follows:

phpCopy code

```
$mathScore = 80; // out of 100 $englishScore = 70; // out of 100 $scienceScore = 90;
// out of 100 $socialStudiesScore = 75; // out of 100
```

Write a PHP if statement to calculate the student's final grade based on the following grading scale:

- A: average score ≥ 90
- B: $80 \leq \text{average score} < 90$
- C: $70 \leq \text{average score} < 80$
- D: $60 \leq \text{average score} < 70$
- F: average score < 60

Your if statement should output the student's average score and final grade.

QUESTION TWO

Suppose you are tasked with writing a PHP program that calculates the tuition of a student at a university based on their characteristics. You are given three variables: **\$nationality** (a string representing the student's nationality), **\$is_orphan** (a boolean indicating whether the student is an orphan), and **\$a_level_points** (an integer representing the student's A level performance points).

Write an if statement that calculates the student's tuition according to the following rules:

- Domestic students who are not orphans pay \$10,000 in tuition
- International students who are not orphans pay \$20,000 in tuition
- Domestic orphans with A level performance points greater than or equal to 45 pay \$5,000 in tuition
- Domestic orphans with A level performance points less than 45 pay \$8,000 in tuition
- International orphans with A level performance points greater than or equal to 45 pay \$15,000 in tuition

- International orphans with A level performance points less than 45 pay \$18,000 in tuition

Write the complete PHP if statement to calculate the tuition of a student based on their characteristics.