

### Polymorphism Trigger:

Your development team has been asked to develop a quiz app for students to use in their study. The app should enable lecturers to add questions relating to course content in a number of different formats. You have been tasked with developing the necessary question object(s). So that the lecturer can view the questions as a whole the application requires a `getDetails()` method which will print the values stored in each of the relevant data members.

**Task 1:** Building on the class diagram from last weeks problem, modify the diagram to include the `getDetails()` method(s).

**Task 2:** Write the code for each of the objects outlined in the class diagram including the `getDetails()` method(s) where necessary. You can use the code developed in last weeks session as a starting point.

Basic questions will have the following attributes:

- `questionText`
- `correctAnswer`
- `mark` (representing the mark awarded for a correct answer )
- `Answer` (representing the answer entered by the user)

Multiple choice questions will have the following attributes:

- `questionText`
- `correctAnswer`
- `mark` (representing the mark awarded for a correct answer )
- `option a`, `option b` and `option c` (representing each of the possible answers)
- `answer`(representing the answer chosen by the user)

Essay Questions will have the following attributes:

- `questionText`
- `correctAnswer`
- `mark` (representing the mark awarded for a correct answer )
- `answer` (representing the text entered by the user)
- `maxWordCount` (representing the maximum word count for the essay)

Picture Questions will have the following attributes:

- `questionText`
- `correctAnswer`
- `mark` (representing the mark awarded for a correct answer )
- `answer` (representing the answer entered by the user)
- `imageName` (representing the image to be displayed with the question)