



SUBJECT: Computing
PAPER NUMBER: Practical – Task 2 SPECIMEN PAPER
DATE:
TIME:

1. Write a program called `GradesAverage`, which:
 - a. prompts the user for the number of students, reads it from the keyboard, and saves it in an `int` variable called `numStudents`; (1)
 - b. prompts the user for the grades of each of the students and saves them in an `int` array called `grades`. (This is to be done only if the value of `numStudents` is greater than 0); (5)
 - c. check that the grade input is between 0 and 100, displaying an appropriate error message if grade input is out of range; (3)
 - d. finds the average of the grades. (1)

(Total: 10 marks)

2. In a class `PassFail`, write a `boolean` method called `passORfail()`, which:
 - a. takes an `int` mark as input and returns `true` if the mark is above 50, or `false` otherwise; (7)
 - b. is tested in the class written for question 1, `GradesAverage`. (3)

(Total: 10 marks)

3. In a class called `Printing`, write a method called `printArray()`, which:
 - a. takes an `int` array and prints its contents; (4)
 - b. uses method overloading to cater for arrays of type `double` and `character` in addition to the `int` type; (3)
 - c. is tested in a separate class called `printTest`. (3)

(Total: 10 marks)