EASTERN UNIVERSITY, SRI LANKA

FIRST EXAMINATION IN SCIENCE 2002/2003 (Re-repeat)

FIRST SEMESTER (June/July' 2003)

CC102 Introduction to PC Applications

Answer all questions

Time allowed: 1 hour

1.

(a) If x=2945, what is the value of each of the following expressions?

     i.   x %10

     ii.   x /10

     iii.   (x/10)%10

     iv.   (x/100)%10

(b) Write a program that calculates and prints the quotient and remainder of two integers.

(c) Write a program that determines a student's grade. It reads three test scores (between 0 and 100) and compute a student's grade based on the following rules:

     i.   If the average score is 90% or more, the grade is A

     ii.   If the average score is 70% or more and less than 90%, the grade is B

     iii.   If the average score is 50% or more and less than 70%, the grade is C, otherwise it is D

2.

Discuss the looping constructs in C++.

Write a program that creates the following pattern, given the number of rows.

```
* * * * * * * * * *
* * * * * * * * * *
* * * * * * * * * *
* * * * * * * * * *
* * * * * * * * * *
```

Repeat your program using other looping constructs.