



Sri Lanka Institute of Information Technology
B. Sc (Hons). Degree in IT
Year 1 – Semester 1 – 2020 – September Intake
Introduction To Programming (IT1010)
Online 2
Version B

Time : 1 hour 15 min

- 1) Write a C program that uses nested loops to print the following figure.

```
aaaaa
bbbb
ccc
dd
e
```

Note that ASCII value of 'a' is 97

(10 marks)

Save your program as **ITXXXXXXa.c**

- 2) A hotel has decided to offer 10% discounts from hotel charge for the wedding packages during the festive season. Discount is valid only if the no of guests is more than 200.
(Hotel charge = no of guests * charge per guest)

You are asked to write a C program to calculate the discount given for wedding packages.

Write a function called **getDiscountPrice()** to get the discount for the wedding package by considering no of guests. Function should return the discount. Function prototype is given below.

```
float getDiscountPrice(int noOfGuests, float chargePerGuest);
```

Write a function called **getAmount()** to calculate and return the amount to be paid. Function prototype is given below.

Amount to be paid = (no of guests * charge per guest)- discount

```
float getAmount(int noOfGuests, float chargePerGuest, float discount);
```

In your main function read the number of guests and the charge per guest from the keyboard and display the discount and the amount to be paid for the wedding package using the functions created above in the following format.

Enter no of guests:

Enter charge per guest:

Discount:

Amount to be paid:

Save your program as **ITXXXXXXb.c**

(10 marks)