



**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 D**

**Time : 1 hour 15 min**

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

```
[ 2 2 2 ]
[ 2 2 1 ]
[ 2 1 2 ]
[ 2 1 1 ]
[ 1 2 2 ]
[ 1 2 1 ]
[ 1 1 2 ]
[ 1 1 1 ]
```

( 10 marks)

Save your program as **ITXXXXXXa.c**

- 2) Unit price of 3 items are listed below

Item	Unit Price (Rs)
1	100.00
2	200.00
3	300.00

Implement a function called calculateTotalCost() to calculate and return the total cost.

Item no and the quantity purchased from that item should be entered as parameters.

Total cost = unit price \* quantity

Function prototype is given below.

```
float calculateTotalCost(int itemNo, int quantity)
```

Implement a function called printDetails() to print the item no, quantity and the total cost

Function prototype is given below.

```
void printDetails(int item no, int quantity, float  
totalCost)
```

In your main function, input item no and the quantity purchased from the keyboard. Call printDetails() function and display the details.

Save your program as **ITXXXXXXb.c**

(10 marks)