

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 ]
```

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.