



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 C

Time : 1 hour 15min

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

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

(10 marks)

Save your program as **ITXXXXXXa.c**

- 2) A security firm has categorized their employees into 3 grades and an hourly rate is paid based on the grade as follows.

Grade	Hourly Rate (Rs)
1	100.00
2	200.00
3	300.00

Implement a function called **calculateWeeklySalary()** of an employee to find and return the weekly salary. Total no of hours worked during the week and the grade of the employee should be passed as a parameter. Function prototype is given below.

```
float calculateWeeklySalary(int grade, float hrsWorked)
```

Weekly salary = no of hours worked for the week * hourly rate.

Implement a function called **printDetails()** to print the grade, hrs worked and the weekly salary of the employee. Function prototype is given below.

```
void printDetails(int grade, float hrsWorked, float salary)
```

In your main function, input the grade and the total no of hours worked during the week from the keyboard. Call **printDetails()** function and display the details.

Save your program as **ITXXXXXXb.c**

(10 marks)