



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA

**SCHOOL OF COMPUTING**  
Faculty of Engineering

**UNIVERSITI TEKNOLOGI MALAYSIA**

**LE03**

**SEMESTER I 2019/ 2020**

**SUBJECT CODE : SECJ1013-05 & SCSJ1013-05**  
**SUBJECT NAME : PROGRAMMING TECHNIQUE I**  
**YEAR/COURSE : 1 SCSV / SCSJ**  
**TIME : (30 MINUTES)**  
**DATE : 17<sup>th</sup> OCTOBER 2019 (THURSDAY)**  
**VENUE : MPK05**

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**INSTRUCTIONS TO THE STUDENTS:**

You are required to submit a cpp file only via UTM e-learning. Save it as LE02.cpp. Put your name & ID no. at beginning of your program as comments.

1 QUESTION (25 MARKS)

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**TOTAL (25 MARKS)**

<b>Name</b>	
<b>I/C No.</b>	
<b>Section</b>	
<b>Lecturer's Name</b>	

This question booklet consists of pages inclusive of the cover page.

**QUESTION****[25 MARKS]**

Write a program that uses **LOOP** and **IF** control structures to display the pattern of stars shown below:

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

The assessment criteria for the program is as shown in the following table:

Item	Criteria	Marks
A	i) The program is able to run and display correct output	4
	ii) Using an appropriate structure for the program	2
	a. Pre-processor directive & function main is properly written b. Indentation and comment correctly stated/written	
B	Using loop and if control structures in the program	19
<b>Total</b>		<b>25</b>