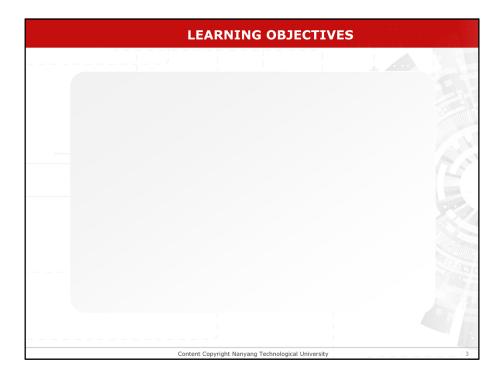
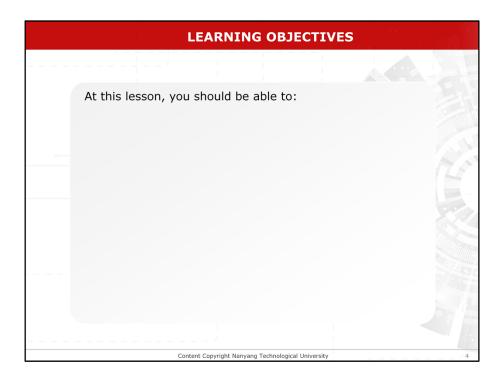


Basic C Programming

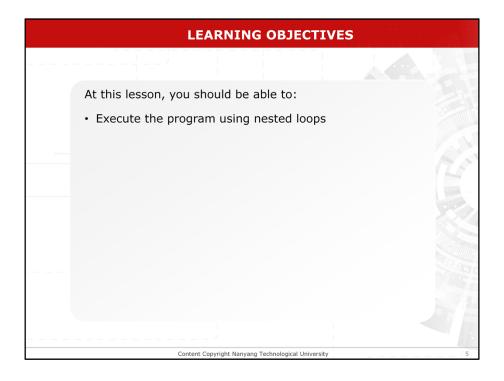
There are 3 main sections to cover for Control structures (looping).



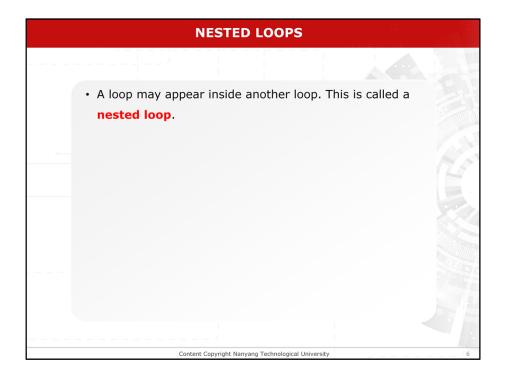
Learning objectives



At this lesson, you should be able to:

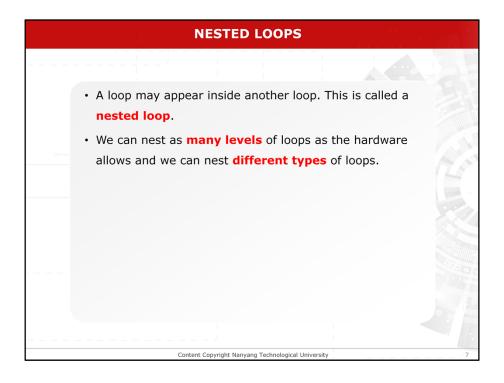


At this lesson, you should be able to:

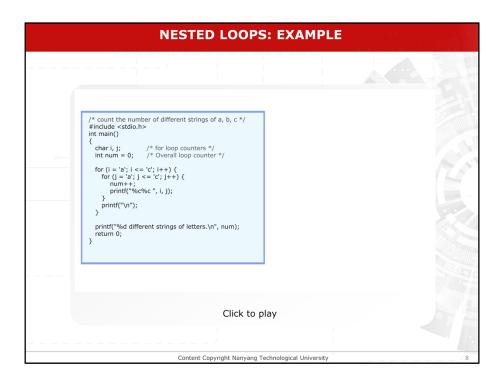


Nested Loops

A loop may appear inside another loop. This is called a *nested* loop.

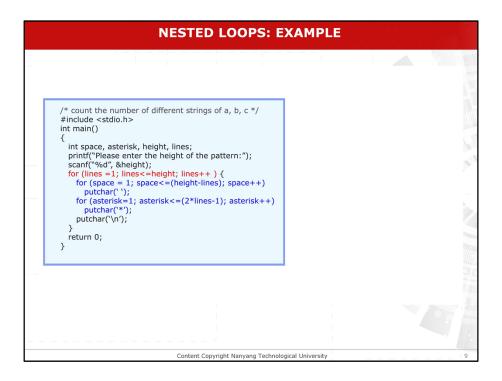


We can nest as many levels of loops as the system allows. We can also nest different types of loops.



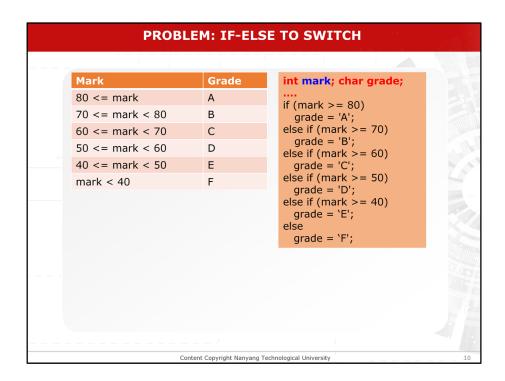
Nested Loops: Example

In the program, it generates the different strings of letters from the characters 'a', 'b' and 'c'. The program contains a nested loop, in which one **for** loop is nested inside another **for** loop.

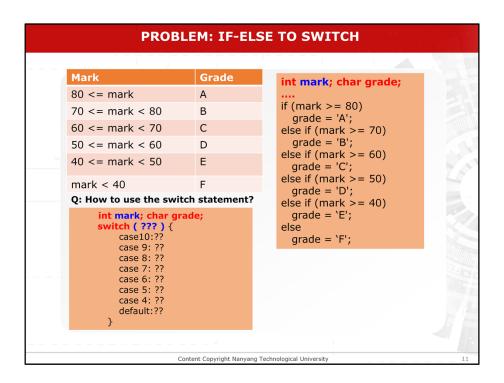


Another example that uses nested loop is given in the following program. A sample input and output of the program is given here.

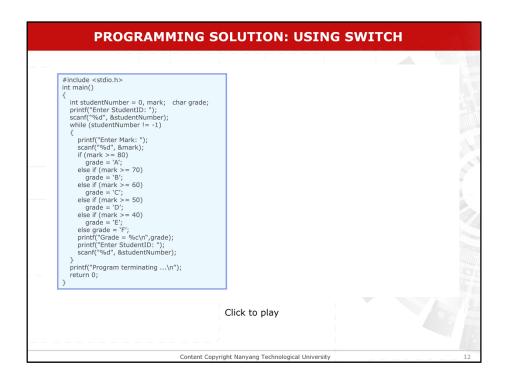
The program prints a triangular pattern according to the height entered by the user.

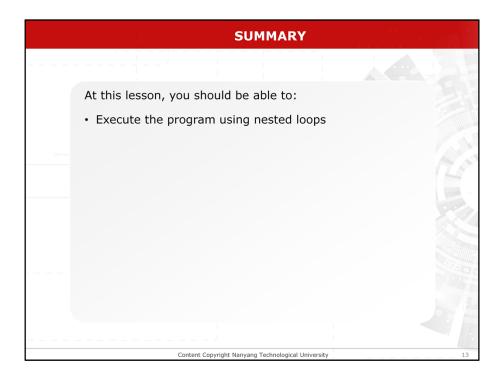


The purpose of this program is to convert the **if-else** statement into a **switch** statement in the mark-to-grade conversion problem. The **if-else** statement is used to control the grade to be assigned to the variable **grade** according to the input value on **mark**.



How to use the switch statement?





In summary, after viewing this video lesson, your should be able to execute the program using nested loops.