

# Advanced Programming COEN 11

## Lab 1

# Lab 1

Login

Start a terminal

Use vi

Create the program

Compile and execute

Demo to the TA

Upload the code to Camino

# Lab 1

## Division Test

- Do 10 times
  - Generate two numbers randomly
    - Denominator (cannot be zero) – from 1 to 12
    - Quotient – from 0 to 12
  - Output the dividend (denominator \* quotient) and denominator
  - Input the answer
  - Compare the answer with the quotient
  - Output right or wrong
  - If the answer is wrong, output the correct quotient
  - Count the number of correct answers
- Show the total score to the user

# Lab 1

To generate the random numbers

- `divisor = rand ( ) % 12 + 1;`
- `quotient = rand ( ) % 13;`
- call `srand` once, before the loop  
`srand ((int) time (NULL));`

# Lab 1

## Grading

- Pre-lab
  - Flowchart or Pseudo-code – 10%
- In the lab
  - Demo to the TA – 30%
  - Submit your code to Camino – 60%