

Advanced Programming COEN 11

Lab 1

Lab 1

- ❑ Login to the Mac
- ❑ Start a terminal
- ❑ Use vi
- ❑ Create the program
- ❑ Compile and execute
- ❑ Demo to the TA
- ❑ Give the TA a harcopy of the code

Lab 1

□ Division Test

➤ Do 10 times

- Generate two numbers between 0 and 12 randomly
 - divisor (cannot be zero) and quotient
- Output the dividend (divisor * quotient) and the divisor
- Input the answer
- Compare the answer with the quotient
- Output right or wrong
- If the answer is wrong, output the 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;`

➤ before the loop, call srand once
`srand ((int) time (NULL));`

Lab 1

- ❑ Create a function to handle each division
 - The main function generates the numbers and passes them as arguments to the division function
 - The division function returns 1 if the user is right and 0 if the user is wrong
 - The main function counts the number of right answers in the loop