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