SUMMER SESSION I 2014
EECS 10 WEEK1 DISCUSSION2

Che-Wei Chang

PART 1 OF ASSIGNMENT 1

- Print your initials on the screen
  - Example: UCI
  - Tips: Lecture slides page 20, "Hello World" example
  - Simple modification of the "Hello World" example

PART 2 OF ASSIGNMENT 1

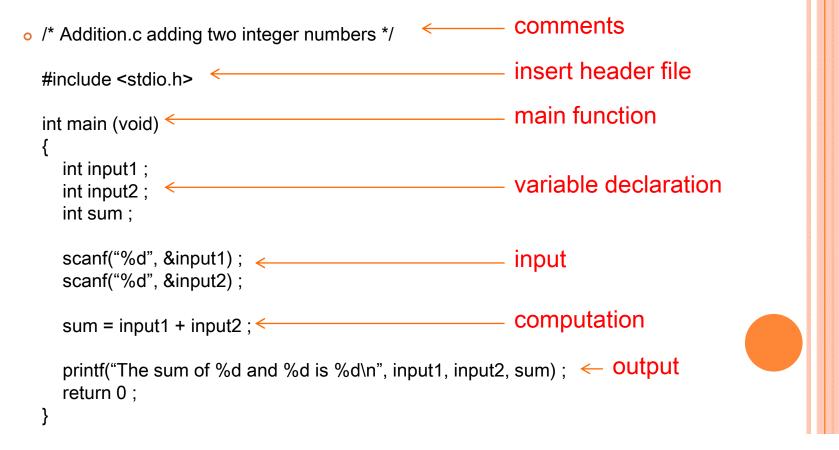- Add two timestamps and print the result
    - Each time stamps contains hours, minutes, and seconds
    - Prompt for hours, minutes, and seconds for each timestamp
    - Read two timestamps through stdin
    - Add two timestamps, and print the result on the screen.

- Example:
    - Timestamp1:   hour: 3   minute: 14   second: 9
    - Timestamp2:   hour: 2   minute: 10   second: 8
    -        Result: hour: 5   minute: 24   second: 17

    ==
    - Timestamp1:   hour: 12 minute: 34   second: 43
    - Timestamp2:   hour: 4 minute: 42   second: 39
    -        Result: hour: 16 minute: 76   second: 82
    -        Result: hour: 17 minute: 17   second: 22

PART2 OF ASSIGNMENT 1 (COND.)

- How to read input from stdin ??
  - function **scanf**
  - lecture 2 slides, page 6 and 7, example "**Addition.c**"

  - /* Addition.c adding two integer numbers */   ⟵ comments

    #include <stdio.h>   ⟵ insert header file

    int main (void)   ⟵ main function
    {
       int input1 ;
       int input2 ;   ⟵ variable declaration
       int sum ;

       scanf("%d", &input1) ;   ⟵ input
       scanf("%d", &input2) ;

       sum = input1 + input2 ;   ⟵ computation

       printf("The sum of %d and %d is %d\n", input1, input2, sum) ;   ⟵ output
       return 0 ;
    }

PART2 OF ASSIGNMENT 1 (COND.)

- After read two inputs, how to compute the output timestamp?
  - Divide (/)and Modulus (%) operator
    ex:

    int A = 15;
    int B =   4;
    int C, D ;

    C = A / B ;   ← What is C ?   3.75 / 3 / 4   ←quotient
    D = A % B ;   ← What is D ?   3   ←remainder

- Bonus:
  - Add day and week to the timestamps.

FLOW TO DO YOUR FIRST ASSIGNMENT

- Step1: Login into your account
  - Step1.1: change your password
- Step2: Create directory "*hw1*" for the assignment
- Step3: Create/Edit the c file(s) (initials.c, timestamp.c)
- Step4: Compile the c file(s)
- Step5: run the executable, and check the results
- Step6: Create the script file(s) (ex. initials.script)
- Step7: Briefly describe your work in .txt file
- Step8: Submit your work.

LOGIN INTO YOUR ACCOUNT

- Windows: putty, OpenSSH…
  - Type *zuma.eecs.uci.edu* or *crystalcove.eecs.uci.edu* in the "Host Name (or IP address)" field.
  - Hit "Open"
  - Input your UCINetID and password correctly
- MacOS: Terminal
  - Use the following command:
    - > ssh zuma.eecs.uci.edu -x -l *YourUserName*   or
    - > ssh *YourUserName*@zuma.eecs.uci.edu
- Modify your password
  - > yppasswd

CREATE DIRECTORY FOR THE HOMEWORK

- Create a new directory
  > mkdir *name_of_the_directory*
  ex: > mkdir hw1

- List the files and directories in the current directory
  > ls

- Change working directory
  > cd *name_of_the_target_directory*
  ex: > cd hw1   (go into hw1)
       > cd ..   (back to upper level)

- Remove a directory
  > rmdir *or* rm -rf *name_of_the_directory*
  ex: > rmdir hw1 or rm –rf hw1

EDIT/COMPILE THE C FILE(S)
RUN THE EXECUTABLE

- Using vi to edit your file
  > vi *filename*
  ex: > vi initial.c

- Compile your c program
  > gcc *source_file* -o *output_file*
  ex: > gcc initials.c -o initials

- Run the executable, and check the result

  >*./executable*   (./ find sth at the current directory)
  ex: > ./initials

CREATE SCRIPT FILE FOR THIS ASSIGNMENT

- Make typescript of terminal session
  > script
  Script started, file is typescript
  > compile your c file(s)   (see previous slides)
  > run the executable   (see previous slides)
  > exit   (or ctrl-d)
  Script done, file is typescript

- After the command above, file typescript will be created.

- Display the content of a file on the screen
  > cat *file_name*
  ex: > cat typescript

- Rename a file to another name
  > mv *file_to_be_renamed new_file_name*
  ex: > mv typescrip initials.script

SUBMIT YOUR HOWEWORK

- Describe your implementation in a txt file
  ex: "it works. I learned… ", "it failed, because … "

  (Assuming you are in your *hw1* directory)

- Go back to directory one level higher than current one
  > cd .. (now you are in the working directory containing
      hw1 directory)

- Submit your homework
  > /ecelib/bin/turnin10
  (NOTE: use this command while you are in the directory
      containing *hw1* directory

FILES YOU SHOULD SUBMIT…

- Print Initials
  - initials.c
  - initials.txt
  - initials.script
- Timestamp Addition
  - timestamp.c
  - timestamp.txt
  - timestamp.script

- The names of your files should be exactly the same with the names listed above, or they won't be submitted successfully.