COMP2611: Computer Organization

MIPS procedures

- □ You will learn the following in this lab:
 - □ how to use MIPS procedures in a program.

Example programs

- □ Try the following example programs in order:
 - □ <u>functionCall1.s</u> (returning through the address in \$ra).
 - □ <u>functionCall2.s</u> (can't return because \$ra has been overwritten).
 - □ <u>functionCall3.s</u> (preserving the registers).
 - □ <u>functionCall4.s</u> (passing more than 4 function arguments).
 - □ <u>functionCall5.s</u> (preserving the function arguments).

- □ Please download a file and open it in Mars http://course.cse.ust.hk/comp2611/lab/lab6/addTwoNumber.s
- This is a modified version of lab 4 exercise to add two numbers
- ☐ You must call a procedure addNum to perform the addition
- ☐ You may need to preserve the value of \$a0 as it will be overwritten

```
Mars Messages Run I/O

Please input A:8
Please input B:12
20
-- program is finished running --

Clear
```

- □ You have learnt:
 - □ how to use MIPS procedures in a program.