LEC 6 STATEMENTS

FORMAT

- **if** (condition)

  {

    statement

  }**else**

  {

    statement

  }

- **if**(condition)

  {

    statement

  }**else if**(condition)

  {

    statement

  }

EXAMPLE 1

- write a program to convert inches to centimeters or convert centimeters to inches;

- we use suffix '**i**' or '**c**' to indicates the units of input;

EXAMPLE 2

- Find the maximum of two integers

CONDITIONAL OPERATOR

- (condition) **?** result_if_true **:** result_if_false

- example: max = (a>b)?a:b;

FOR LOOP

- The format for for loop is

    for(**initialization**; **condition**; **increase**)

    {

      statement;

    }

- example:

    for(int i=0; i<100;i++)

    {

      cout<< i <<endl;

    }

EXAMPLE 1

- Check if a string is a palindrome.

- A **palindrome** is a word, phrase, number, or other sequence of characters which reads the same backward or forward. (from wiki)

- Example: "a", "aa", "aba", "abcba", "135531".