# CS3241 Lab 1 Doodle

# Setting up OpenGL (VS2008)

- In this module we will use VS2008 or VS2010 for assignments
- Put glut.dll and glut32.dll in "C:\windows\system" and "C:\windows\system32" respectively
- Put glut.h in "C:\Program Files\Microsoft Visual Studio 8.o\VC\include\GL"
- Put glut.lib and glut32.lib in "C:\Program Files\Microsoft Visual Studio 8.0\VC\lib"

# Opening Lab 1

- Download the .zip file from IVLE workbin
- 2. Unzip it into a directory
  - You can first play around with sample.exe
- 3. Follow the instruction to open the solution file
- 4. Click "Build"

#### Drawing a Disk

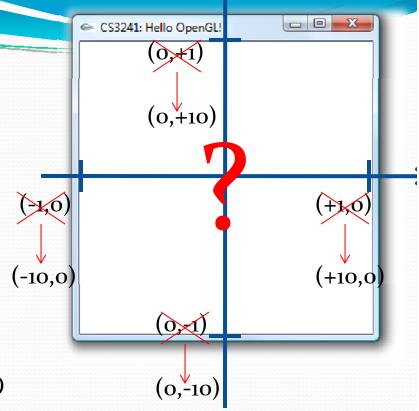
- Look for the function display() in main.cpp
- Draw a disk with radius 1 and center at (0,0)

# glOrtho

- The disk is supposed to have radius 1. Why is it so small?
- The function:

```
glOrtho(-10, 10, -10, 10, -10, 10)
```

• Changed the dimensions into 10 x 10 x 10 (x, y and z)



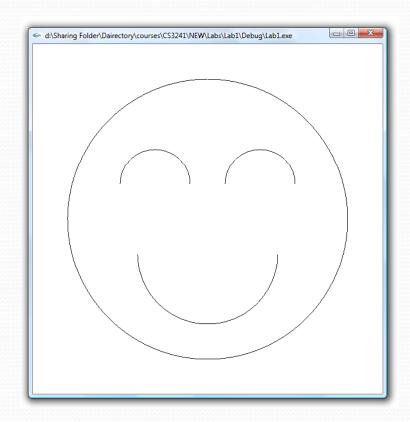
#### Drawing a Circle

- Try changing **GL\_POLYGON** into
  - GL\_LINE\_STRIP or GL\_LINE\_LOOP
- Draw a disk with radius 1 and center at (0,0)

#### Function drawArc()

# Try drawing this

```
drawArc(0,0,8,0,360);
drawArc(3,2,2,-90,90);
drawArc(-3,2,2,-90,90);
drawArc(0,-2,4,90,270);
```



#### **About HW1**

- Make sure you did these when you submit
  - Able to be compiled by the lab machines!!!
    - Complied in RELEASE mode
  - All the function keys (Q,E, etc.) still work probably for your work
  - "Clean" the solution
    - You can delete the .pcb file after cleaning to reduce the file size
  - Write a text file include your work's information
    - (see the lab instruction)
  - Zip all your files up, rename it into your student number + ".zip" and submit it up to IVLE