# Contents

# 1 CE103 Algorithms and Programming I

# 2 Week-12

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# 3 C/Cpp GUI Programming

The Microsoft Foundation Class
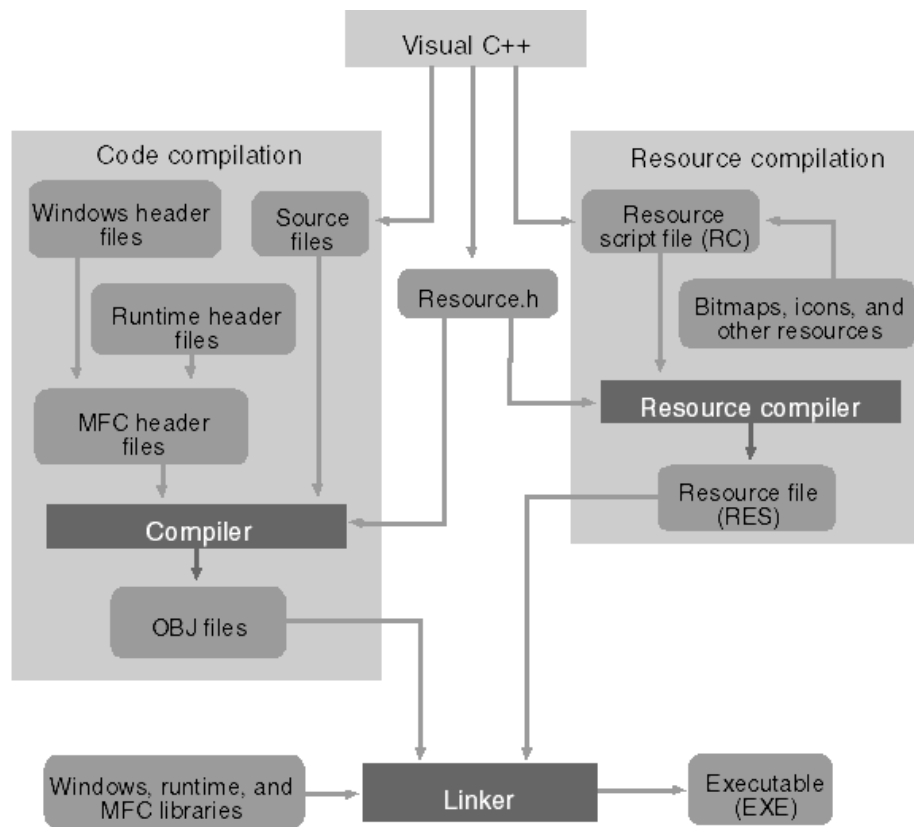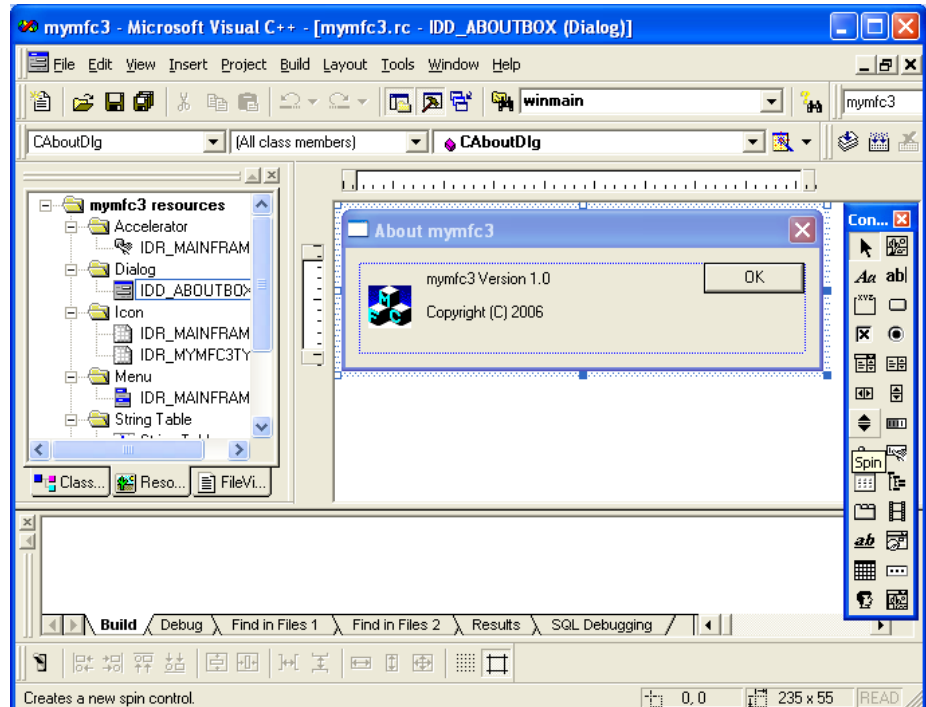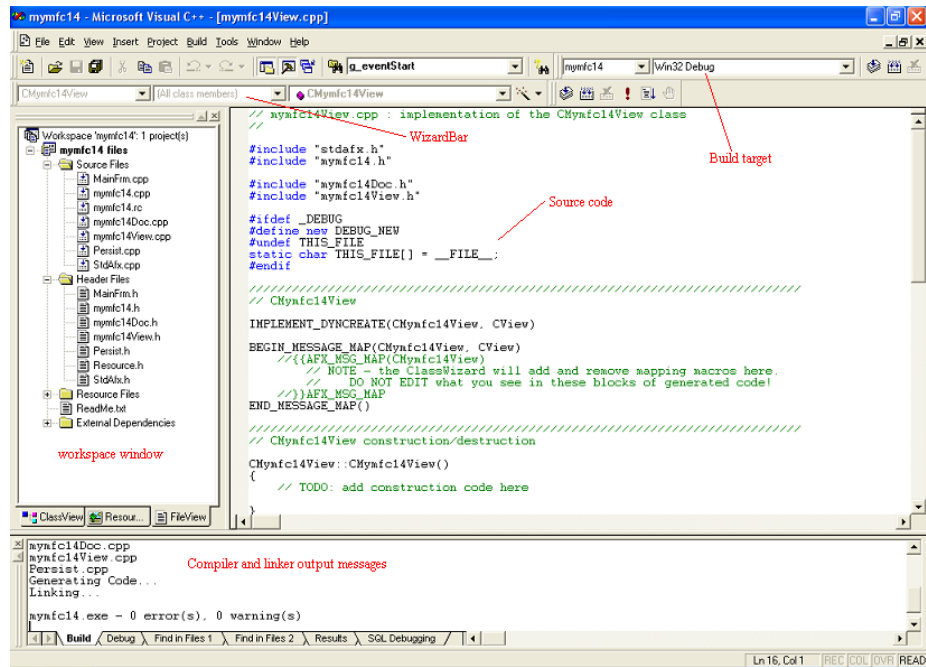
MFC Tutorial

Visual C++ / MFC Calculator 3 - YouTube

MFC C++ : My videos source code download available now to members - YouTube

The Windows GUI interface programming using Microsoft Foundation Classes (MFC) with Visual C++ and .Net hands-on approach tutorials

Module 1: Using Visual C++ 6.0, .Net and Windows MFC Graphic User Interface (GUI) programming hands-on tutorial-Module1

Visual C++

**Code compilation**

Windows header files

Source files

Runtime header files

MFC header files

Resource.h

Compiler

OBJ files

**Resource compilation**

Resource script file (RC)

Bitmaps, icons, and other resources

Resource compiler

Resource file (RES)

Windows, runtime, and MFC libraries

Linker

Executable (EXE)

GTK 4

https://www.msys2.org/

https://www.msys2.org/

Programming with gtkmm 4

Build and run GTK 4 applications with Visual Studio

https://www.gtk.org/

The Meson Build system

The GTK Project - A free and open-source cross-platform widget toolkit

```c
// Include gtk
#include <gtk/gtk.h>

static void on_activate (GtkApplication *app) {
  // Create a new window
  GtkWidget *window = gtk_application_window_new (app);
  // Create a new button
  GtkWidget *button = gtk_button_new_with_label ("Hello, World!");
  // When the button is clicked, close the window passed as an argument
  g_signal_connect_swapped (button, "clicked", G_CALLBACK (gtk_window_close), window);
  gtk_window_set_child (GTK_WINDOW (window), button);
  gtk_window_present (GTK_WINDOW (window));
}

int main (int argc, char *argv[]) {
  // Create a new application
  GtkApplication *app = gtk_application_new ("com.example.GtkApplication",
                                             G_APPLICATION_FLAGS_NONE);
  g_signal_connect (app, "activate", G_CALLBACK (on_activate), NULL);
  return g_application_run (G_APPLICATION (app), argc, argv);
}
```

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