

**CSE-312 F**

**Visual Programming Lab.**

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**Class Work : 25 Marks**  
**Exam : 25 Marks**  
**Total : 50 Marks**

**Duration of Exam : 3 Hrs**

**Study of Visual Basic 6.0.NET and Visual C++ 6.0.NET.**

- 1) Study Windows API's. Find out their relationship with MFC classes. Appreciate how they are helpful in finding complexities of windows programming.
- 2) Get familiar with essential classes in a typical (Document-view architecture) VC++ Program and their relationship with each other.
- 3) Create an SDI application in VC++ that adds a pop-up menu to your application which uses File drop down menu attached with the menu bar as the pop-up menu. The pop-up menu should be displayed on the right click of the mouse.
- 4) Create an SDI application in VC++ using which the user can draw almost 20 rectangles in the client area. All the rectangles that are drawn should remain visible on the screen even if the window is refreshed. Rectangle should be drawn on the second click of the left mouse button out of the two consecutive clicks. If the user tries to draw more than 20 rectangles, a message should get displayed in the client area that " No more rectangles can be drawn"
- 5) Create an application in VC++ that shows how menu items can be grayed, disabled and appended at run time.
- 6) Write a program in VC++ to implement serialization of inbuilt and user defined objects.
- 7) Write a program in VC++ to create archive class object from CFile class that reads and stores a simple structure (record).
- 8) Make an Active X control in VC++ derived from a standard control.
- 9) Write a program in VB to implement a simple calculator.
- 10) Create a simple database in MS Access Database Oracle and a simple database application in VB that shows database connectivity through DAO and ADO.
- 11) Write a simple program that displays an appropriate message when the illegal operation is performed using error handling technique in VB.
- 12) Write a program in VB to create a notepad.
- 13) Create a DLL in VB.

**Bright students may do the following exercises:**

- 14) Write a program in VC++ to implement a simple calculator.
- 15) Write a program in VC++ to create a static link library and a dynamic link library.
- 16) Create a simple database in MS Access Database and a simple database application in VC++ that shows database connectivity through ADO model.
- 17) Make an Active X control of your own using VB.
- 18) With the help of VB, create an object of excel application and implement any action on it.