Practical 6

Name: Rahul Baser

Roll No.: A4-75

Aim: a) Write a program to display "hello window" in user defined window

b) Write a program for free hand drawing

```
a)
#include <tchar.h>
#include <windows.h>
int flag =0;
LRESULT CALLBACK WindowProcedure (HWND, UINT, WPARAM, LPARAM);
TCHAR szClassName[] = T("CodeBlocksWindowsApp");
int WINAPI WinMain (HINSTANCE hThisInstance,
HINSTANCE hPrevInstance,
LPSTR lpszArgument,
int nCmdShow)
{
    HWND hwnd;
     MSG messages;
     WNDCLASSEX wincl;
     wincl.hInstance = hThisInstance;
     wincl.lpszClassName = szClassName;
     wincl.lpfnWndProc = WindowProcedure;
     wincl.style = CS DBLCLKS;
     wincl.cbSize = sizeof (WNDCLASSEX);
     wincl.hlcon = LoadIcon (NULL, IDI APPLICATION);
     wincl.hlconSm = LoadIcon (NULL, IDI APPLICATION);
     wincl.hCursor = LoadCursor (NULL, IDC ARROW);
     wincl.lpszMenuName = NULL;
```

```
wincl.cbClsExtra = 0;
     wincl.cbWndExtra = 0;
     wincl.hbrBackground = (HBRUSH) COLOR BACKGROUND;
     if (!RegisterClassEx (&wincl))
     return 0;
     hwnd = CreateWindowEx (0, szClassName, T("Code::Blocks
Template Windows App"), WS OVERLAPPEDWINDOW, CW USEDEFAULT,
CW USEDEFAULT, 544, 375, HWND DESKTOP, NULL, hThisInstance,
NULL);
     ShowWindow (hwnd, nCmdShow);
     while (GetMessage (&messages, NULL, 0, 0))
     TranslateMessage(&messages);
     DispatchMessage(&messages);
     }
     return messages.wParam;
}
LRESULT CALLBACK WindowProcedure (HWND hwnd, UINT message,
WPARAM wParam, LPARAM lParam) {
     RECT rect;
     PAINTSTRUCT ps;
     HDC hdc;
     switch (message)
     case WM DESTROY:
          PostQuitMessage (0);
     break;
     case WM PAINT:
          hdc = BeginPaint(hwnd, &ps);
          GetClientRect(hwnd, &rect);
          DrawText(hdc, "hello window", -1, &rect, DT LEFT);
          EndPaint(hwnd, &ps);
     case WM MOUSEMOVE:
          if(flag==1){
               int x2 = LOWORD(lParam);
               int y2 = HIWORD(lParam);
               hdc = GetDC(hwnd);
```



