

## Lab Report

Course Title: Computer Graphics Lab

Course Code: CSE422

Name of the Report: Animation of 2D project

# **Submitted By:**

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### **Code:**

```
#include <windows.h>
#include <GL/gl.h>
#include <GL/glut.h>
float p = -20;
bool flag = true;
void display(void)
{
  glClear(GL\_COLOR\_BUFFER\_BIT);
  if (p > 12)flag = !flag;
  if (p <= -25) flag = !flag;
  if (flag)p += 0.005;
  else p = 0.005;
  // if (p \le 12)p = 0.005;
  // else p = -20;
  // if (p > = -20)
  // p = 0.0005;
  // else
  // p = 12;
  {\bf glutPostRedisplay}();\\
  glBegin(GL_POLYGON);
  //glColor3f(.1, .06, .75);
  glColor4f(0.0f, 0.90f, 1.0f, 1.0f);
```

```
glVertex2f(p + 3, 7);
  glVertex2f(p - 1, 7);
  glVertex2f(p - 1, 11);
  glVertex2f(p + 3, 11);
  glEnd();
  glBegin(GL_POLYGON);
  glColor3f(1.0, 1.0, 1.0);
  glVertex2f(p + 3, 8.5);
  glVertex2f(p - 1, 8.5);
  glVertex2f(p - 1, 9.5);
  glVertex2f(p + 3, 9.5);
  glEnd();
  glBegin(GL\_POLYGON);
  glColor3f(0.9, 0.2, 0.5);
  glVertex2f(p + 2, 3);
  glVertex2f(p + 3, 3);
  glVertex2f(p + 3, 7);
  glVertex2f(p + 2, 7);
  glEnd();
  glBegin(GL_POLYGON);
  glColor3f(0.0, 0.8, 0.5);
  glVertex2f(p, -3);
  glVertex2f(p + 5, -3);
  glVertex2f(p + 7, 3);
  glVertex2f(p - 2, 3);
  glEnd();
  glFlush();
void init(void)
{
```

```
glClearColor(0.0, 0.0, 0.0, 0.0);
  glMatrixMode(GL\_PROJECTION);
  glLoadIdentity();
  gluOrtho2D(-20, 15, -20, 15);
}
int main(int argc, char** argv)
{
  glutInit(&argc, argv);
  glutInitDisplayMode(GLUT\_SINGLE \mid GLUT\_RGB);
  glutInitWindowSize (600, 600);\\
  glutInitWindowPosition (100,\,100);
  glutCreateWindow("Sayed MD Towaha 192-15-13126");
  init();
  glutDisplayFunc(display);
  glutMainLoop();
  return 0;
```

### **Output:**

