```
#include<windows.h>
#include <GL/glut.h>
#include <stdio.h>
#include <GL/gl.h>
void init(void)
{
  glClearColor(0.0,0.0,0.0,0.0);
  glMatrixMode(GL_PROJECTION);
  glLoadIdentity();
  glOrtho(0.0, 40.0, 0.0, 30.0, -1.0, 1.0);
  //gluOrtho2D(0.0,300.0,0.0,300.0);
}
void Draw()
  glClear(GL_COLOR_BUFFER_BIT);
  //code
  glBegin(GL_QUADS);
  glColor3f(1.0,0.0,0.0);
  //Trapezoid
  glVertex3f(3.0f, 13.0f, 0.0f);
  glVertex3f(12.0f, 13.0f, 0.0f);
  glVertex3f(12.0f, 20.0f, 0.0f);
  glVertex3f(3.0f, 20.0f, 0.0f);
```

```
glEnd();
glBegin(GL_POLYGON);
glColor3f(1.0,1.0,0.0);
//Pentagon
     glVertex3f(22.0f, 15.0f, 0.0f);
     glVertex3f(25.0f, 15.0f, 0.0f);
     glVertex3f(26.0f, 17.0f, 0.0f);
     glVertex3f(25.0f, 19.0f, 0.0f);
     glVertex3f(22.0f, 19.0f, 0.0f);
     glVertex3f(21.0f, 17.0f, 0.0f);
glEnd();
glBegin(GL_POLYGON);
glColor3f(0.0,1.0,0.0);
//Trapezoid
glVertex3f(4.0f, 4.0f, 0.0f);
glVertex3f(13.0f, 4.0f, 0.0f);
glVertex3f(13.0f, 11.0f, 0.0f);
glVertex3f(4.0f, 11.0f, 0.0f);
```

```
glVertex3f(4.0f, 7.0f, 0.0f);
glEnd();
glBegin(GL_QUADS);
glColor3f(1.0f,1.0f,1.0f);
//Trapezoid
glVertex3f(2.0f, 3.0f, 0.0f);
glColor3f(0.2f,0.2f,0.2f);
glVertex3f(8.0f, 3.0f, 0.0f);
glColor3f(1.0f,1.0f,1.0f);
glVertex3f(8.0f, 7.5f, 0.0f);
glColor3f(0.2f,0.2f,0.2f);
glVertex3f(2.0f, 7.5f, 0.0f);
glEnd();
glBegin(GL_POLYGON);
glColor3f(0.0,0.0,1.0);
//Pentagon
     glVertex3f(24.0f, 6.0f, 0.0f);
     glVertex3f(21.0f, 9.0f, 0.0f);
     glVertex3f(17.0f, 3.5f, 0.0f);
```

```
glVertex3f(23.0f, 3.5f, 0.0f);
       //glVertex3f(30.0f, 14.0f, 0.0f);
  glEnd();
  glBegin(GL_TRIANGLES);
  glColor3f(0.0,0.0,1.0);
  //Triangle
  glVertex3f(24.0f, 1.0f, 0.0f);
  glColor3f(0.0, 1.0, 0.0);
  glVertex3f(28.0f, 6.0f, 0.0f);
  glColor3f(1.0, 0.0, 0.0);
  glVertex3f(20.0f, 6.0f, 0.0f);
  glEnd();
  glutSwapBuffers();
int main(int argc,char **argv)
```

}

{

```
glutInit(&argc,argv);
glutInitDisplayMode ( GLUT_RGB | GLUT_DOUBLE );
glutInitWindowPosition(0,0);
glutInitWindowSize(500,500);
glutCreateWindow("Lab Task");
init();
glutDisplayFunc(Draw);
glutMainLoop();
return 0;
}
```

## Output:

