

Experiment No 8

Title Implement animation principles for any object

```
#include <iostream>

#include <math.h>

#include <time.h>

#include <GL/glut.h>

using namespace std;

int x=0;

int flag=0;

void init(){

    glClearColor(1.0,1.0,1.0,0.0);

    glMatrixMode(GL_PROJECTION);

    gluOrtho2D(0,640,0,480);

}

void object1(){

    glClear(GL_COLOR_BUFFER_BIT);

    glColor3f(1,0,0);

    glBegin(GL_POLYGON);

    glVertex2i(x,220);

    glVertex2i(x+40,220);

    glVertex2i(x+40,260);

    glVertex2i(x,260);

    glEnd();

    glutSwapBuffers();

}

void timer(int){

    glutPostRedisplay();

    glutTimerFunc(1000/60,timer,0);
```

```

if(flag == 0){
x = x+3;
}
if(flag == 1){
x = x-3;
}
if(x==600){
flag = 1;
}
if(x == 0){
flag = 0;
}
}

int main(int argc, char** argv){
glutInit(&argc, argv);
glutInitDisplayMode(GLUT_DOUBLE | GLUT_RGB);
glutInitWindowSize(640,480);
glutInitWindowPosition(200,200);
glutCreateWindow("Animation");
init();
glutDisplayFunc(object1);
glutTimerFunc(1000,timer,0);
glutMainLoop();
return 0;
}

```

OUTPUT

