

|  |
| --- |
| 7th 2D Project  A Garden View |
|  |
| Computer Graphics (CS352)  Yasmine El Shafei - 20102062  Rowan Sherif - 20102728 |

# Plan

|  |
| --- |
| We planned to draw a garden filled with flowers, a tree, sun, chick, house, some clouds moving and a cloud appearing from the chimney  I made the house the animation in clouds and pipe clouds, the animation in chick.  My teammate made the sun, chick, flowers and the tree and rotation on the chick.  The background color and ground color chosen on team  **Implementation**  **We use 256 in choosing RGB colors**  By functions  glcolor3ub()  glCLearColor(/255.0)  We set the ortho2d to  X -> 15  y -> 10  to prevent shapes stretching    We used for some of colors  glcolor3f() |
| For drawing rectangles and squares:  Glbegin(GL\_QUADS)  Glvertex2f(upper left vertex),  (upper right),  (lower right),  (lower left)  **For drawing triangle:**  Glbegin(GL\_TRIANGLES)  Glvertex2f(upper point)  Glvertex2f(left point)  Glvertex2f(right point)  For drawing circles  Glbegin(GL\_POLYGONS)  For drawing lines  Glbegin(GL\_LINES)  Used for animation of the clouds and the bubbles that comes out of the chimney  glutTimerFunc(1000,timer,0);  and detected the x an y position for beginning of each object  glpushmatrix glpopmatrix  To make all the circles act as a one cloud  To draw each object on a certain space  For changing the direction of the circle  Gltranslated(x,y,z)  For rotating:  GlRotated(angle, x,y,z)  **Used shapes**  Circles  Rectangles  Triangle  Oval  Lines  Square |

