Final Quiz-1

1. Implement the following transformation operation to find the resultant coordinates of a triangle, whereas P (10,10), Q (40,10) and R (30,40) are three end points of the triangle. Rotate the triangle about 60 degree clockwise. Magnify it twice after the rotation. Finally rotate the triangle about 90 degree anticlockwise. Show all the necessary calculations step by step. Use P(10, 10) as the starting point for the triangle. [4 Marks]
2. Implement the following transformation operation to find the resultant coordinates of a Quads, whereas P (10,10), Q (20,10), R (20,20) and S (10,20) are four end points of the Quads. Rotate the quads about 90 degree anticlockwise. Magnify it thrice of the original size and translate the object with (5, 10) factor. Finally rotate the quads 45 degree clockwise. Show all the necessary calculations step by step. Use P(10,10) as the starting point [4 Marks]
3. Why transformation is important in computer graphics? [2 Marks]