## Bachelor of Science in Computer Science (2020/2021) Year II Semester II Examination CO2213 – Practical work on CO2223

Answer All Questions Time: 02 Hours

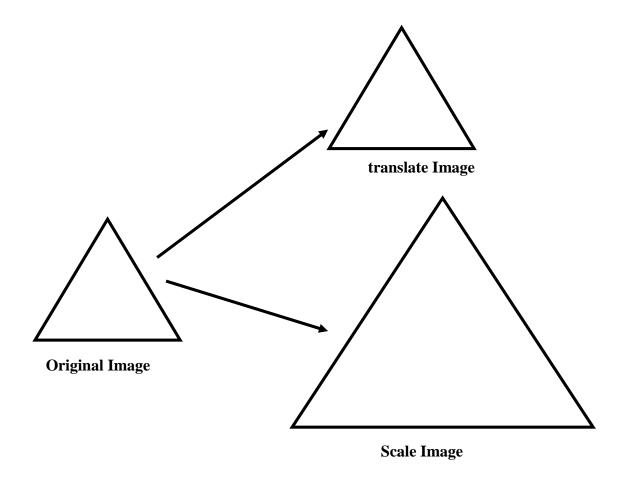
Write a Java method declared by dda (Graphics g, int  $x_0$ , int  $y_0$ , int  $x_1$ , int  $y_1$ ) to implement the DDA line drawing algorithm, where  $(x_0, y_0)$  and  $(x_1, y_1)$  are the extreme end points of the line.

Write a Java method declared by void translatePoint (Graphics g, int P[], int T[]) to translate the given point by (x, y).

Write a Java method declared by void translateLine (Graphics g, int P[][2], int T[]) to implement the translate both of the end points of the line.

Write a Java method declared by void scale (Graphics g, int x[], int y[], int x[], int x[]

Write a Java code to perform following transformation as shown below by using written methods.



Each coordinate is translated by the coordinates of (7, 9) and scaled by factors of 4 and 8 for sx and sy, respectively.