## PAC Chart:

DATA GIVEN	REQUIRED RESULT(S)
$\rightarrow$ x-Coordinate of Point.	ightarrow Quadrant the point lies in.
ightarrow y-Coordinate of Point.	
REQUIRED PROCESSING	SOLUTION ALTERNATIVES
<ul> <li>→ Check the sign of x-Coordinate,</li> <li>→ Check the sign of y-Coordinate,</li> <li>→ Use the signs of coordinates to figure out its Quadrant:</li> <li>1) In Quadrant I, both x and y are positive,</li> <li>2) In Quadrant II, x is negative, and y is positive,</li> <li>3) In Quadrant III, both x and y are negative,</li> <li>4) In Quadrant IV, x is positive, and y is negative.</li> </ul>	→ In case any of the coordinates is 0, it would mean that the point lies on either x-Axis or y-Axis.

## IPO Chart:

<u>INPUT</u>	<u>PROCESS</u>	<u>OUTPUT</u>
→ x-Coordinate	$\rightarrow$ IF x > 0 and y > 0 THEN Quadrant = I	→ Quadrant
ightarrow y-Coordinate	$\rightarrow$ IF x < 0 and y > 0 THEN Quadrant = II	or Axes
	$\rightarrow$ IF x < 0 and y < 0 THEN Quadrant = III	
	$\rightarrow$ IF x > 0 and y < 0 THEN Quadrant = IV	
	ightarrow OTHERWISE Point lies on Axes	
	→ Display Quadrant (or Axes)	