//follow the video instructions for implementation

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\* Function to mask clouds based on the pixel\_qa band of Landsat 8 SR data.

\* @param {ee.Image} image input Landsat 8 SR image

\* @return {ee.Image} cloudmasked Landsat 8 image

\*/

function maskL8sr(image) {

// Bits 3 and 5 are cloud shadow and cloud, respectively.

var cloudShadowBitMask = (1 << 3);

var cloudsBitMask = (1 << 5);

// Get the pixel QA band.

var qa = image.select('pixel\_qa');

// Both flags should be set to zero, indicating clear conditions.

var mask = qa.bitwiseAnd(cloudShadowBitMask).eq(0)

.and(qa.bitwiseAnd(cloudsBitMask).eq(0));

return image.updateMask(mask);

}

var dataset = ee.ImageCollection('LANDSAT/LC08/C01/T1\_SR')

.filterDate('2016-01-01', '2016-12-31')

.map(maskL8sr);

var visParams = {

bands: ['B4', 'B3', 'B2'],

min: 0,

max: 3000,

gamma: 1.4,

};

Map.setCenter(114.0079, -26.0765, 9);

Map.addLayer(dataset.median(), visParams);