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Npm : 2210010314

Kelas : 4B BJB reg pagi

The screenshot displays the Google Earth Engine web interface. At the top, a script editor shows the code for 'adam-sig-4b'. The code includes a 'Hello World' print statement, console logs for the user's name, NPM ID, and class, followed by a series of steps to process Sentinel-2 satellite imagery: defining a polygon AOI, filtering for a specific date range, applying a median filter, and adding the results to the map.

```
1 print("Hello World")
2
3 console.log("Nama : Muhammad Adam Alghifari")
4 print("NPM : 2210010314")
5 print("Kelas : 4B BJB")
6
7 // Inisialisasi AOI
8 var AOI = ee.Geometry.Polygon([
9   [[110.0, -7.0], [110.0, -7.5], [110.5, -7.5], [110.5, -7.0]]
10 ]);
11
12 // Inisialisasi koleksi citra Sentinel-2
13 var Sentinel2 = ee.ImageCollection('COPERNICUS/S2_HARMONIZED');
14
15 // Pusatkan peta pada AOI dengan zoom level 12
16 Map.centerObject(AOI, 12);
17
18 // Parameter visualisasi
19 var Vis_S2 = {min: 0.0, max: 0.3, bands: ['B4', 'B3', 'B2']};
20
21 // Filter koleksi citra berdasarkan kriteria tertentu
22 var S2_filtered = Sentinel2.filter(ee.Filter.lt('CLOUDY_PIXEL_PERCENTAGE', 20))
23   .filter(ee.Filter.date('2023-01-01', '2023-12-31'))
24   .filter(ee.Filter.bounds(AOI));
25
26 // Melakukan komposit median pada koleksi citra yang sudah difilter
27 var S2_medianComposite = S2_filtered.median().divide(10000);
28 print('medianComposite', S2_medianComposite);
29
30 // Memotong citra berdasarkan AOI
31 var S2_clip = S2_medianComposite.clip(AOI);
32
33 // Menambahkan layer citra komposit dan AOI ke peta
34 Map.addLayer(S2_clip, Vis_S2, 'S2 Clip');
35 Map.addLayer(AOI, {color: 'gray'}, 'AOI');
```

The console on the right shows the output of the script execution: 'Hello World', the user's name, NPM ID, and class. Below the console, a map view shows the processed Sentinel-2 imagery (S2 Clip) overlaid on the AOI polygon (AOI).