This is an image matching project, using opencv library. The algorithm I used in the code is **ORB** (Oriented FAST and Rotated BRIEF), which is a combination of two well-known computer vision algorithms:

1. **FAST (Features from Accelerated Segment Test)**: This is a corner detection algorithm used to identify keypoints in an image. It quickly detects interest points by checking the pixel intensities in a circular region around a candidate point.
2. **BRIEF (Binary Robust Independent Elementary Features)**: this binary descriptor is used to represent the keypoints detected by FAST. It generates a binary string based on the intensity comparisons between pixel pairs in a patch around the keypoint.

ORB was used to detect keypoints in both images. After detecting keypoints, ORB computes descriptors that are unique to each keypoint, making it possible to match keypoints between the two images. The BFMatcher (Brute-Force Matcher) is used to match the keypoints between the two images based on their descriptors. It finds the closest match using Hamming distance since ORB uses binary descriptors.