Performing Face Recognition	
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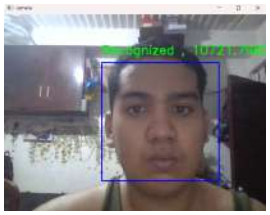
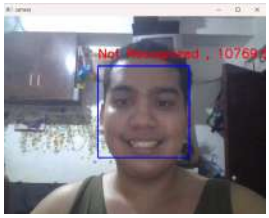
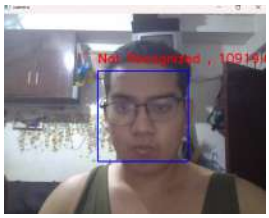
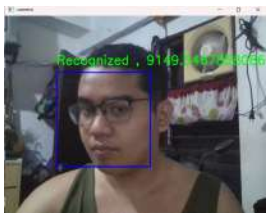
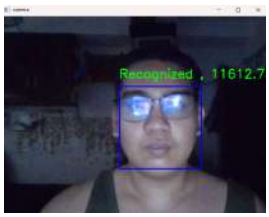
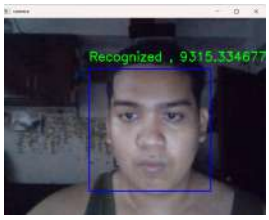
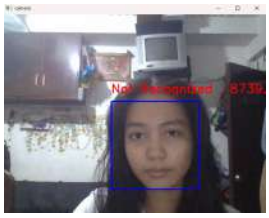
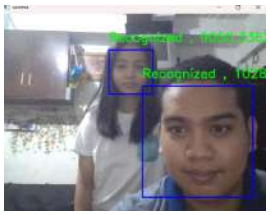
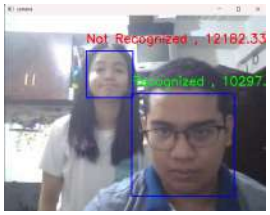
Testing

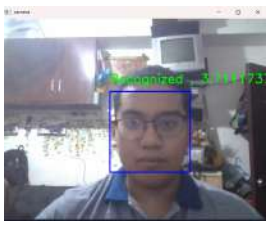
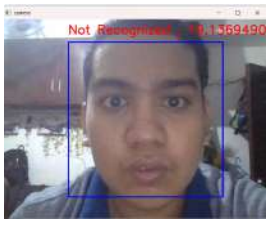
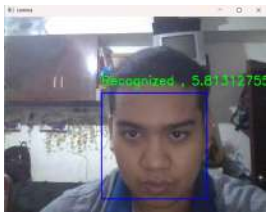
In this project, we test face recognition using Eigenfaces, Fisherfaces, and LBPH to detect and recognize individual faces. The system will use a computer camera and be tested under various lighting conditions and distances to ensure accuracy. If a specific face is detected, it should be recognized, while others should not be. This will help us evaluate the effectiveness of these algorithms in real-world scenarios.

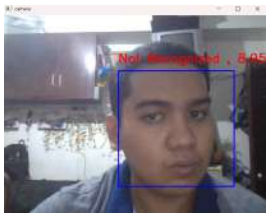
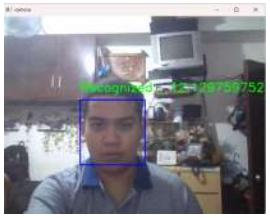
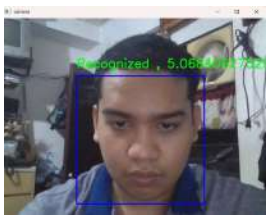
Eigen Face Recognition				
Trial no.	**Sample Output**	**Expected Output**	**Actual Output**	**Outcome**
1		**Recognized**	**Not Recognized**	**Mismatch**
2		**Recognized**	**Recognized**	**Match**
3		**Recognized**	**Recognized**	**Match**
4		**Recognized**	**Recognized**	**Match**

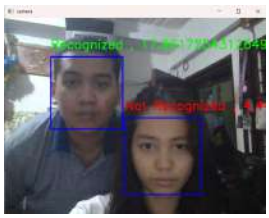
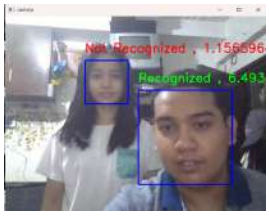
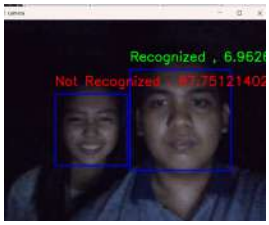
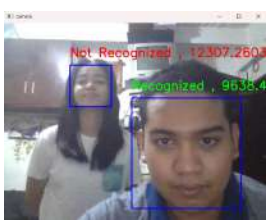
5		Recognized	Not Recognized	Mismatch
6		Recognized	Not Recognized	Mismatch
7		Recognized	Not Recognized	Mismatch
8		Recognized	Not Recognized	Mismatch
9		Recognized	None	Mismatch
10		Recognized	Recognized	Match
11		Recognized	Not Recognized	Mismatch

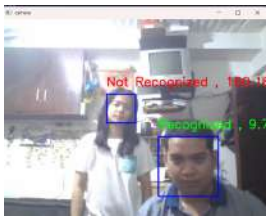
12		Recognized	Recognized	Match
13		Recognized	Not Recognized	Mismatch
14		Recognized	Recognized	Match
15		Not Recognized, Recognized	Not Recognized, Not Recognized	Mismatch
16		Not Recognized	Not Recognized	Match
17		Not Recognized	Not Recognized	Match
18		Not Recognized, Recognized	Not Recognized, Recognized	Match

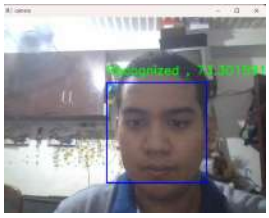
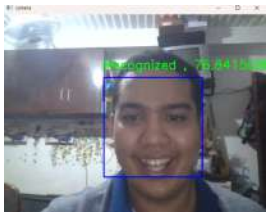
19		**Not Recognized Recognized**	**Recognized Recognized**	**Mismatch**
20		**Not Recognized Recognized**	**Not Recognized Recognized**	**Match**
TOTAL:				**10/20 = 50%**

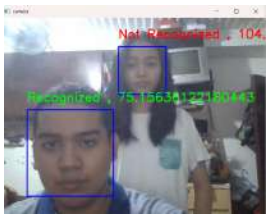
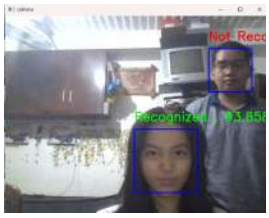
Fisher Face Recognition				
Trial no.	**Sample Output**	**Expected Output**	**Actual Output**	**Outcome**
1		**Recognized**	**Recognized**	**Match**
2		**Recognized**	**Not Recognized**	**Mismatch**
3		**Recognized**	**Not Recognized**	**Mismatch**
4		**Recognized**	**Recognized**	**Match**

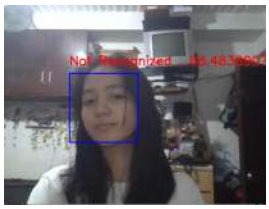
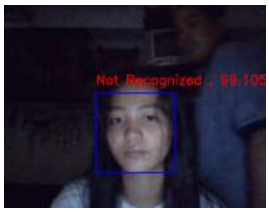
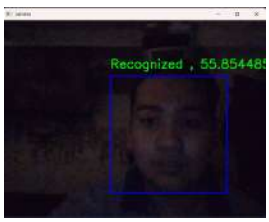
5		**Recognized**	**Not Recognized**	**Mismatch**
6		**Recognized**	**Recognized**	**Match**
7		**Recognized**	**Recognized**	**Match**
8		**Recognized**	**None**	**Mismatch**
9		**Recognized**	**Recognized**	**Match**
10		**Recognized**	**Recognized**	**Match**
11		**Recognized**	**Recognized**	**Match**

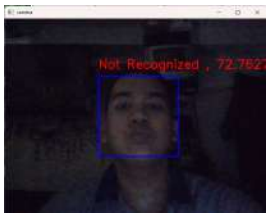
12		**Recognized**	**Recognized**	**Match**
13		**Not Recognized**	**Not Recognized**	**Match**
14		**Not Recognized**	**Not Recognized**	**Match**
15		**Recognized, Not Recognized**	**Recognized, Not Recognized**	**Match**
16		**Recognized, Not Recognized**	**Recognized, Not Recognized**	**Match**
17		**Recognized, Not Recognized**	**Recognized, Not Recognized**	**Match**
18		**Recognized, Not Recognized**	**Recognized, Not Recognized**	**Match**

19		**Recognized, Not Recognized**	**Not Recognized Recognized**	**Match**
20		**Recognized, Not Recognized**	**Recognized, Not Recognized**	**Match**
Total				18/20

Low Binary Pattern Histogram (LBPH) Recognition				
Trial no.	**Sample Output**	**Expected Output**	**Actual Output**	**Outcome**
1		**Recognized**	**Recognized**	**Match**
2		**Recognized**	**Recognized**	**Match**
3		**Recognized**	**Recognized**	**Match**
4		**Recognized**	**None**	**Mismatch**

5		**Recognized, Not Recognized**	**Recognized, Not Recognized**	**Match**
6		**Recognized, Not Recognized**	**Recognized, Recognized**	**Mismatch**
7		**Recognized, Not Recognized**	**Recognized, Not Recognized**	**Match**
8		**Recognized, Not Recognized**	**Recognized, Not Recognized**	**Match**
9		**Recognized, Not Recognized**	**Recognized, Not Recognized**	**Match**
10		**Recognized, Not Recognized**	**Not Recognized, Recognized**	**Mismatch**
11		**Not Recognized**	**Recognized**	**Mismatch**

12		**Not Recognized**	**Not Recognized**	**Match**
13		**Not Recognized**	**Not Recognized**	**Match**
14		**Recognized, Not Recognized**	**Not Recognized, None**	**Mismatch**
15		**Recognized, Not Recognized**	**Not Recognized, Not Recognized**	**Mismatch**
16		**Not Recognized, Recognized**	**Not Recognized, Recognized**	**Match**
17		**Not Recognized**	**Not Recognized**	**Match**
18		**Recognized**	**Recognized**	**Match**

19		**Recognized**	**Not Recognized**	**Mismatch**
20		**Recognized**	**Recognized**	**Match**
TOTAL:				**13/20 = 65%**