

# **COMPUTER SCIENCE PROJECT**

EYE SCANNER

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**CLASS: XII - MARIGOLD**

**ROLL NO: 12106**

**SESSION: 2024-25**

# CERTIFICATE

This is to certify that **DEVANSH GUPTA** and **TEJAS ROHILLA** have successfully completed his Computer Science project titled **EYE SCANNER** under the supervision and guidance of MR. **FARROUKH NADEEM** in the fulfilment of this project conducted during the academic year **2024-2025**.

**Examiner**

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**Teacher**

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# ACKNOWLEDGEMENT

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I am thankful to the school management for providing the necessary resources and the opportunity to undertake this project.

Lastly, I am thankful to God for blessing me with the time and strength to complete this work.

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# INTRODUCTION

In today's digital world, the role of technology in healthcare has become increasingly significant. This project aims to simulate an eye scanner application using Python's Tkinter library. The eye scanner is designed to perform three essential tests that help assess different aspects of vision health.

The first test uses the Snellen chart, a common tool in vision screening that measures visual acuity. The second test involves the Ishihara plates, which are used to detect colour blindness, specifically red-green colour deficiencies. Finally, the project incorporates a colour blindness test, which further evaluates the user's ability to differentiate colours accurately.

This project combines graphical user interface (GUI) development with basic healthcare principles, demonstrating the power of software in creating accessible and user-friendly tools for vision testing.

# BIBLIOGRAPHY

Using the best thing in the world “HUMAN MIND”

Under Progress!!!