**A Novel Graphical Password Authentication Scheme with Improved Usability**

**Introduction:**

With increasing technical advancements the world is becoming digital at a high pace and everything is happening online. From paying your bills to ticket bookings to paying the person sitting next to you, you prefer to pay online. Not only payments but all the activities, be it, communication through e-mails and messaging apps, keeping your documents in a digital locker, etc happen online. With everything turning online, the risk of cybercrimes and privacy breaches is also increasing.

Passwords play a huge role in keeping your data safe online as well as offline platforms. The main objective of this study is to examine the usability attributes of the recognition-based graphical passwords.

In an era of digital security, this endeavour introduces an innovative approach to authentication. By seamlessly combining graphical elements with enhanced usability, the scheme aims to redefine the user authentication experience. By mitigating common challenges of textual passwords, the project endeavours to provide a secure, user-friendly solution that promises to elevate security standards while maintaining user convenience and engagement.

**PROBLEM OF THE STATEMENT**