Indian Institute of Technology Jodhpur

Computer Science and Engineering Department

Lab 1

CSL6010 - Cyber Security

Objective: Design and implementation of a Password Strength Checker with OTP Verification using C/C++/JAVA/Python etc.

Design and implement a program to evaluate the strength of a password and verify the user through an OTP sent to their email.

1. **Key Requirements:**
   a. **Programming language** : C/C++/JAVA/Python etc.

   b. **Password Complexity:**
      - Minimum 8 characters
      - Contains both uppercase and lowercase letters
      - Includes at least one numeric digit
      - Has at least one special character (e.g., !, @, #, etc.)
      - No commonly used passwords (e.g., "password123", "123456"

   c. **OTP:**
      - ❖ Generate a One-Time Password (OTP) consisting of 6 digits.
      - ❖ Send the OTP to the user's email address.
      - ❖ Prompt the user to enter the received OTP.
      - ❖ Verify the entered OTP with the generated OTP.

2. **Output:**

   - **Password Strength:** Weak, Moderate, Strong
   - **OTP Verification:** Success or Failure

Include comments for each step in your code explaining key parts of your logic.