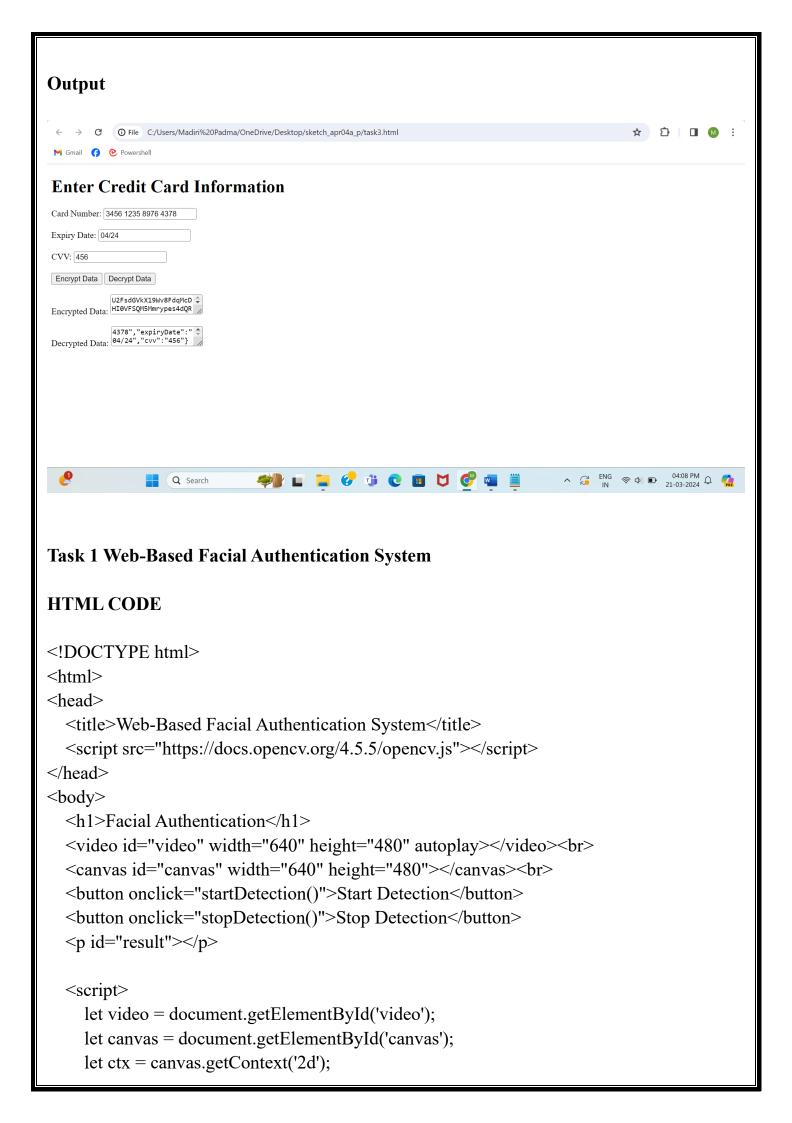
INTERMEDIATE Project:

Task 2 Credit Card Encryption and Decryption

```
<!DOCTYPE html>
<html>
<head>
  <title>Credit Card Encryption and Decryption</title>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/crypto-js/4.1.1/crypto-</pre>
js.min.js"></script>
</head>
<body>
  <h1>Enter Credit Card Information</h1>
  <form id="creditCardForm">
     <label for="cardNumber">Card Number:</label>
     <input type="text" id="cardNumber" name="cardNumber" required><br><br>
     <label for="expiryDate">Expiry Date:</label>
     <input type="text" id="expiryDate" name="expiryDate" placeholder="MM/YY"</pre>
required><br><br>
     <label for="cvv">CVV:</label>
     <input type="text" id="cvv" name="cvv" required><br><br>
     <button type="button" onclick="encryptData()">Encrypt Data</button>
     <button type="button" onclick="decryptData()">Decrypt
Data</button><br>>
     <label for="encryptedData">Encrypted Data:</label>
     <textarea id="encryptedData" name="encryptedData"
readonly></textarea><br><br>
     <label for="decryptedData">Decrypted Data:</label>
     <textarea id="decryptedData" name="decryptedData"
readonly></textarea><br>>br>
  </form>
  <script>
     var key = "ThisIsASecretKey"; // Note: In real applications, generate a secure
key
```

```
function encryptData() {
       var cardNumber = document.getElementById("cardNumber").value;
       var expiryDate = document.getElementById("expiryDate").value;
       var cvv = document.getElementById("cvv").value;
       var data = {
         cardNumber: cardNumber,
         expiryDate: expiryDate,
         cvv: cvv
       };
       var encrypted = CryptoJS.AES.encrypt(JSON.stringify(data), key).toString();
       document.getElementById("encryptedData").value = encrypted;
    function decryptData() {
       var encryptedData = document.getElementById("encryptedData").value;
       try {
         var decrypted = CryptoJS.AES.decrypt(encryptedData,
key).toString(CryptoJS.enc.Utf8);
         document.getElementById("decryptedData").value = decrypted;
       } catch (e) {
         document.getElementById("decryptedData").value = "Decryption failed.
Please check the encrypted data.";
  </script>
</body>
</html>
```



```
let resultElement = document.getElementById('result');
let isDetecting = false;
let faces = new cv.RectVector();
// Load the face detection model
cv['onRuntimeInitialized'] = () => {
  let faceCascade = new cv.CascadeClassifier();
  faceCascade.load('haarcascade frontalface default.xml');
  // Start the video stream and detect faces
  function detectFaces() {
     if (!isDetecting) return;
     ctx.drawImage(video, 0, 0, canvas.width, canvas.height);
     let frame = new cv.Mat(canvas.height, canvas.width, cv.CV 8UC4);
     cv.imshow(frame, canvas);
     cv.cvtColor(frame, frame, cv.COLOR RGBA2GRAY, 0);
     faceCascade.detectMultiScale(frame, faces);
     if (faces.size() > 0) {
       resultElement.textContent = 'Face Detected';
     } else {
       resultElement.textContent = 'No Face Detected';
     frame.delete();
     requestAnimationFrame(detectFaces);
  }
  // Start face detection
  function startDetection() {
     isDetecting = true;
     navigator.mediaDevices.getUserMedia({ video: true })
       .then((stream) => {
          video.srcObject = stream;
          video.play();
          detectFaces();
       })
       .catch((error) => \{
          console.error('Error accessing webcam:', error);
       });
  // Stop face detection
  function stopDetection() {
```

```
isDetecting = false;
          video.srcObject.getTracks().forEach((track) => {
             track.stop();
          });
       // Load the video and start face detection
       video.addEventListener('loadeddata',\,() \Longrightarrow \{
          console.log('Video loaded');
       });
       // Clean up on page close
       window.addEventListener('beforeunload', () => {
          if (isDetecting) {
             stopDetection();
       });
  </script>
</body>
</html>
```