**Pseudocode Explanation for Code**

**MODULE:** function for mailing / notifying user for various tasks, OTP, etc.

The function, **sendmail,** is used to send an email from a specified email address to a specified recipient. It takes in several parameters including the sender’s email address and password, the recipient’s email address, the subject and body of the email, an optional attachment, and a Boolean value indicating whether the body of the email is in HTML format or not.

**Pseudocode:**

FUNCTION sendmail(from, password, to, subject, body, attachment, html)

IMPORT necessary libraries

SET sender as from

SET password as password

CREATE a new MIMEMultipart object

SET the 'From', 'To', and 'Subject' fields of the MIMEMultipart object

SET body as body

IF html is True

ATTACH body as an HTML MIMEText object to the MIMEMultipart object

ELSE

ATTACH body as a plain MIMEText object to the MIMEMultipart object

ENDIF

IF attachment is not empty or None

GET filename from attachment path

OPEN attachment file in read binary mode

CREATE a new MIMEBase object with 'application' and 'octet-stream' parameters

SET payload of MIMEBase object with attachment data and encode it in base64

ADD 'Content-Disposition' header to MIMEBase object with filename

ATTACH MIMEBase object to MIMEMultipart object

ENDIF

CREATE a new SMTP object with 'smtp.gmail.com' and port 587

START TLS for the SMTP object

LOGIN to the SMTP server using sender and password

CONVERT MIMEMultipart object to string

SEND email using the SMTP object with sender, to, and MIMEMultipart string as parameters

QUIT the SMTP server connection

ENDFUNCTION

**MODULE:** function for creating and storing new note by user.

The note\_compose function is a JavaScript function that helps to create more notes for the user. It takes four arguments: date, title, note, and note\_no. The function first checks if a form element with the class “FORM” already exists on the page. If it does, the function removes the form element and returns. If the form element does not exist, the function creates a new form element and sets its attributes. The form includes fields for the user to input a date, title, and note content. The form is then submitted to a server-side script called “main.php” for processing. If the note\_no argument is not empty, it is appended to the action attribute of the form as a query parameter. The function also sets the value of the date field to either the current date or the value of the date argument if it is not empty.

**Pseudocode:**

FUNCTION note\_compose(date, title, note, note\_no)

IF a form element with class "FORM" exists

REMOVE the form element

RETURN

ENDIF

SET today to the current date

SET dd to the day of today with leading zero

SET mm to the month of today with leading zero

SET yyyy to the year of today

SET action to "main.php"

IF note\_no is not empty

APPEND "?note\_no=" and note\_no to action

ENDIF

IF date is empty

SET today to yyyy + '-' + mm + '-' + dd

ELSE

SET today to date

ENDIF

CREATE a form element and set its attributes

SET the innerHTML of the form element to the form template

APPEND the form element to the body of the document

TOGGLE the "onclick" attribute of the element with id "btn1"

SET the value of the element with id "Date" to today

ENDFUNCTION