Practical no: 12

Title: Develop a Real time application like smart home with following requirements: When user enters into house the required appliances like fan, light should be switched ON. Appliances should also get controlled remotely by a suitable web interface. The objective of this application is student should construct complete Smart application in group.

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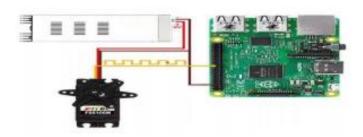
Div: A

Roll no: 02

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	ESIOT Practical 12	Aditi Dinesh Mulay T.E. Comp Div:A Roll no: 02
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0	Develop a Real time apple with following requirements: into house the required appoint of the switched on Application. The object of this application construct complete Smart application	When ente user enters pliances like fan light pliances should also get uitable web interface. In is student should
	Theory Basics - Jend Send Emails usi	ing Python
	1. The 'smtpib' module of pythological to send emails, without such additional information 2. But for real emails, you control to sof information-maybe 3. This is where Phython's email in mind that it is not possion message using the email prombination of both emails. How to send emails 1. Set up the SMTP server and 2. Create the MIME Multipart	at any subject line or n. to need a subject line of even pictures of attenments I paixage comes in keep sible to send an email paixage alone. You need a a smtplib. I log into your account. msg. phiest of load it with
aparet 1	appropriate headers for fr 3. Add your message body. 4. Send the message using the	om, 10, and subject heros.

The smtplib
1. The smtplib module defines an SMTP client session Object that can be used to send mail to any Internet Machine with an SMTP or ESMTP listener doesnon. 2. SMTP stands for Simple Mail Transfer Protocol. The smtplib modules is useful for communicating with mail servers to send mail. 3. Sending mail is done with Python's smtplib using SMTPLib server. 4. Actual usage varies depending on complexity of email and settings of cmail server, the instructions here are based on sending email through Imail.
 Servo Motor
1. A servo motor is a combination of Dc motor, position control system and gears Servos have many applications in morden world and with that they are available in different shapes and sizes. We will be using SG90 servo motor which is one of the popular and cheapest one SG90 is a 180. degree servo. So with this servo we can position the axis from 0-180 degrees. 2. A servo motor has three wires, one is for positive Voltage and another is for ground and last one is for position setting. Red wire is connected to power, Brown wire is connected to ground & oxange is connected to signal.



	3. A serve motor is a combination of Damotor, position control system and grow Serves have made
	3teps
1	1) Write the application to read the image and send it as email attachment to user. Location: /homelpi 2) Write an application to using HTML-PHP to control the servo motor lock. Location: /var/www/html.
	Conclusion
	Thus, we have developed short application for smort Home System.