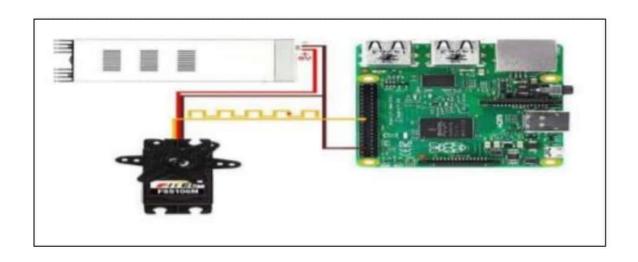
Experiment no:-12 Aim &- Develop a real time application like smart home following requirements: when user enters into house required appliances like ten, light. Should be switch on Appliances should also get Controlled remotely by a suitable web interface Theory &-Basics - send enails using python :-I smtplib module of python is basically all you need to send simple emails, without any subject line or such additional info 2 Out for teal enails, you do need a subject line and lots of intomay be even pictures and attachments 3. This is where Python's engil package comes in Keep in mind that is not possible to sad an email message using email puckage alone How to send emails :-1. Set up SMTP server + log into your account. 2- Creste MIME multipart message object and load it with appropriate headers for from To, and sub fields. 3- Add your message body. 4 rend message using smtp server object. The smtplib :-I smtplib module defines sm TP client session object that can be wed to send mail to any internet machine with smip 2. 5m TP 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 sontplib using smith server 4 Actual wage varies depending on Complexity of email and setting of email server, instructions here are based on sending email through amail. servo motor :-1. A servo metor is a combination of oc motor, position control system 4 grees. We will be using 5000 SANO motor which is one of the popular + Chepest one 2 It has mainly 3 wites, one is positive voltage, another is ground and last one is purition setting. 3. A servo motor is a combination of DC motor, position control system and geres. 5480 is a 180 degree servo. So with his servo we con pultion axis from 0-180 degrees. Steps 3-1. Chate lock | unlock application to control servo mater lock. Change its owner and group oswow-data. Location: I var/www/html 2 wife application to read image & send it as email attachment to the user Location: 1 home / pi. 3. write application wing HTML-PHP to control theservo motor lock Location: Iver/www/html Conclusion :-Thus, we have developed short application for smart home system