To host a website using Apache webserver using bash script:

Create nano demo.sh ---→inside

```bash
#!/bin/bash

set -e


DOMAIN="mywebsite.com"

DOC_ROOT="/var/www/$DOMAIN/public_html"

VHOST_FILE="/etc/apache2/sites-available/$DOMAIN.conf"

SSL_CERT="/etc/ssl/certs/$DOMAIN.crt"

SSL_KEY="/etc/ssl/private/$DOMAIN.key"


# Create document root and set permissions

sudo mkdir -p $DOC_ROOT

sudo chown -R $USER:$USER $DOC_ROOT

sudo chmod -R 755 /var/www


# Create index.html with desired content

echo "<!DOCTYPE html>
<html>
<head>
   <title>Welcome to $DOMAIN</title>
</head>
<body style='font-family: Arial; text-align: center; margin-top: 100px;'>
   <h1>Hi! I am Brundha</h1>
</body>
</html>" | sudo tee $DOC_ROOT/index.html > /dev/null
```

```bash
# Enable Apache SSL module
sudo a2enmod ssl


# Generate self-signed SSL certificate (valid for 1 year)
sudo openssl req -x509 -nodes -days 365 -newkey rsa:2048 \
  -keyout $SSL_KEY -out $SSL_CERT \
  -subj "/C=IN/ST=State/L=City/O=Organization/OU=IT Department/CN=$DOMAIN"


# Create Apache virtual host config with SSL
sudo bash -c "cat > $VHOST_FILE" << EOF
<VirtualHost *:80>
    ServerName $DOMAIN
    Redirect permanent / https://$DOMAIN/
</VirtualHost>


<VirtualHost *:443>
    ServerName $DOMAIN
    DocumentRoot $DOC_ROOT


    SSLEngine on
    SSLCertificateFile $SSL_CERT
    SSLCertificateKeyFile $SSL_KEY


    <Directory $DOC_ROOT>
        Options Indexes FollowSymLinks
        AllowOverride All
        Require all granted
    </Directory>
```

ErrorLog \${APACHE_LOG_DIR}/$DOMAIN-error.log

CustomLog \${APACHE_LOG_DIR}/$DOMAIN-access.log combined

</VirtualHost>

EOF

Enable the new site configuration

sudo a2ensite $DOMAIN.conf

Reload Apache to apply changes

sudo systemctl reload apache2
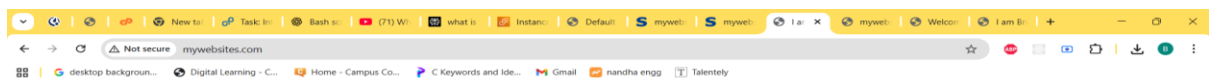

echo "Setup complete! Visit https://$DOMAIN to see 'Hi! I am Brundha'"

echo "Remember to add '$DOMAIN' pointing to 127.0.0.1 in your /etc/hosts for local access."

Chmod +x demo.sh

./demo.sh

Using http://mywebsites.com

Using https://mywebsites.com--->in these adding ssl certificate.

Hi! I am Brundha