```
SSLeay_add_ssl algorithms();
client method = SSLv2 client method();
SSL_load error strings();
ctx = SSL CTX new(client method);
printf("(1) SSL context initialized\n\n");
/*===========*/
/* (2) convert server hostname into IP address */
/*===========*/
hostname = argv[1];
host_entry = gethostbyname(hostname);
bcopy(host entry->h addr, &(ip.s addr), host entry->h length);
printf("(2) '%s' has IP address '%s'\n\n", hostname, inet ntoa(ip));
/*============*/
/* (3) open a TCP connection to port 443 on server */
/*----*/
sd = socket (AF_INET, SOCK_STREAM, 0);
memset(&server_socket_address, '\0', sizeof(server_socket_address));
server socket address.sin family = AF INET;
server socket address.sin port = htons(443);
memcpy(&(server socket address.sin addr.s addr),
     host_entry->h_addr, host_entry->h_length);
err = connect(sd, (struct sockaddr*) &server socket address,
           sizeof(server socket address));
if (err < 0) { perror("can't connect to server port"); exit(1); }</pre>
printf("(3) TCP connection open to host '%s', port %d\n\n",
     hostname, server_socket_address.sin_port);
/* (4) initiate the SSL handshake over the TCP connection */
/*=========*/
SSL_set_fd(ssl, sd); /* attach sst. stack endpoint */
err = set
                  /* attach SSL stack to socket */
err = SSL connect(ssl); /* initiate SSL handshake */
printf("(4) SSL endpoint created & handshake completed\n\n");
/*==========*/
/* (5) print out the negotiated cipher chosen */
/*========*/
printf("(5) SSL connected with cipher: %s\n\n", SSL_get_cipher(ssl));
/*========*/
/* (6) print out the server's certificate */
/*=======*/
server_cert = SSL_get_peer_certificate(ssl);
printf("(6) server's certificate was received:\n\n");
str = X509_NAME_oneline(X509_get_subject_name(server_cert), 0, 0);
           subject: %s\n", str);
```