Project title: "Tokenflix" token - used to gain access to video stations or channels. flix - platform which provides video contents such as movies, Tyshows, NEINS, Cartoon, etc. Objective: To create a simple video stations/ channels server of dient system using TCP socket programming in C language with token-based alless control Wer can login, select station to watch of granted totens to watch videos. Totens are gained by answering questions. Server provide list of stations of dient can select of watch them.

Functionalities: il server & client communication. to send & receive data. ii) video station: server uses "toplay" command to play videos to client. iii] User quetherication: (lient sends user name 4 passinond to server when request for videos. iv] Token-based access control: client are granted limited number of tokens to watch videos. Tokens get reduce when video is played f can be gain by answering questions. V7 station list: server sends list of available videos to dient for relection (for eg: movie, TY shows, (artoon, news,) Octabase: if station_data.txt.: for storing names no. of videos of stations ii/ user-data.txt: too storing username of passivord that of dient. iii] user-tokens.txt: for keeping record tokens of users. file handling concept is used for execting, reading of updating inform.

	Working: i] Server-side:
	@ It initializes by weating out &
	it to specific port.
	(2) listens for incoming client connection
	@ Upon dient connection, it sends list of
	expilable videos (station) to client.
	1 Deceives clients username of passimond of
3	initial no. of tokens.
	The server processes client's choice to play
	video checking if dient has enough tokens.
	If not it asks client question to replent
	tokens.
	O server streams selected video to dient, updating
	token wunt & user's tokens file.
	ii/ dient-side:
	@ Initialize by creating socket of connect to
	seaver.
	1 It receives list of available videos from
	server 4 display them to user
	O dient sends username password & initial
	token to count server
	@ dient sends choosen video number to server,
	which processes request based on token
	availability.
	10 It tokens are depleted dient answers
	question to replenish tokens.
	@ Client can exist loop of dissumment from
	Server at any time.