## Zen Task Day 1

## 2. Write a blog on Difference between HTTP1.1 vs HTTP2.

Difference	HTTP 1.1	HTTP 2.0
Year	1997	2015
Key features	It supports connection reuse i.e. for every	Uses multiplexing, where over a single
	TCP connection there could be multiple	TCP connection resources to be
	requests and responses, and pipe lining	delivered are interleaved and arrive at
	where the client can request several	the client almost at the same time.
	resources from the server at once.	
	Introduces a warning header field to carry	Underlying semantics of HTTP such as
	additional information about the status of	headers, status codes remains the
Status code	a message. Can define 24 status codes,	same.
	error reporting is quicker and more	
	efficient.	
	It is relatively secure since it uses digest	Security concerns from previous
Authentication Mechanism	authentication, NTLM authentication.	versions will continue to be seen in
		HTTP/2. However, it is better equipped
		to deal with them due to new TLS
		features like connection error of type
		Inadequate Security.
Caching	Expands on the caching support by using	HTTP/2 does not change much in
	additional headers like cache-control,	terms of caching. With the server push
	conditional headers like If-Match and by	feature if the client finds the resources
	using entity tags.	are already present in the cache, it can
		cancel the pushed stream.
Web Traffic	TCP starts slowly and with domain	HTTP/2 utilizes multiplexing and server
	sharing (resources can be downloaded	push to effectively reduce the page
	simultaneously by using multiple	load time by a greater margin along
	domains), connection reuse and pipe	with being less sensitive to network
	lining, there is an increased risk of	delays.
	network congestion.	
Reliability	Slower but reliable transfers	Faster but non reliable transfers.
Applications	Email, Web browsing	Music Streaming
Casting	Unicast	Unicast, Multicast, Broadcast
Acknowledgement	It acknowledges for each response	It doesn't acknowledge

## Zen Task Day 1

## 3. Write a blog about objects and its internal representation in Javascript?

- In JavaScript, Objects is the most important data-type and forms the building blocks for modern JavaScript. These objects are quite different from JavaScript's primitive data-types (Number, String, Boolean, null, undefined and symbol) in the sense that while these primitive data-types all store a single value each (depending on their types).
- Objects in JavaScript may be defined as an unordered collection of related data, of primitive or reference types, in the form of "key: value" pairs. These keys can be variables or functions and are called properties and methods, respectively, in the context of an object.
- A JavaScript object has properties associated with it. A property of an object can be explained
  as a variable that is attached to the object. Object properties are basically the same as ordinary
  JavaScript variables, except for the attachment to objects. The properties of an object define the
  characteristics of the object. You access the properties of an object with a simple dot-notation: