## ASSIGNMENT - 2

Q- What is Buffer im Node of and why it is used?

Ans- A Bujer in Node js is a Special type of mumory used to store bin any data. (vandata) It is similar to an away but works with raw bytes instead of number or strings.

why is Buffer needed?

In Node is, data from files, network streams, or other sources does not always come as a complete. Package. Instead, it comes in Small chunks (pieces). Since is Js natively handles only strings and numbers. Node is uses Buffers to store and process these raw data chunks efficiently.

Example of Buffer usage -

console log (buyen)?

OUTPUT - < Buyer 48 65 6c 6c 6F>

The test "thuo" is stores as binary data (hex value)
47 65 6c 6c 6f or the hexadecimal codes
for "H", "e", "d", "d", "d", "o"

\* whom is Buffer used

De Reading files - when reading a file, Node js leads it into a Buffer before commuting it into a String

2) Handling Streams - (eg HTTP requests, file Uploads)

no Buffer.

3) working with Binary data (eg images, video, audio)
Buffers are useful when handling media files
that are not Plain text

Kry features of Buffers

Stores raw binary data

绝

- 2) Works faster than Strings for handling large data
- 3 Hups with thoowing files & network organist efficiently