## Assignment 87 Date: Title: Encoding of and decoding of Json objects Problem Statement: Study and demonstrate the use of encoding and decoding Json objects using Java Python Objectives: To understand and implement encoding and decoding of 550N objects. Outcomes: Students will be able to encode & decode JSON objects. Requirements: Eclipse, Javal Python, computer Theory: JSON stands for JavaScript Object Notation. It is a lightweight format for storing and transporting data. IsoN is often used when data is being sent from servers to a web page.

JSON is easy for humans to read and write. It is easy for marchines to parse and generate. It is based on

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	a subset of JavaScript Program ming
	Language Standard ECMH-262 3rd Editio
	- Décember 1999. These properties of JSON make it sdeal of data interchange
	language.
	JSON is built on 2 structures:
•	A collection of namel value pairs. In
	various languages, this is realized as an object, record, struct, dictionary, hash
	table, keyed list, or associative arroy.
•	An ordered list of values. In most
	languages, this is realized as an array,
	· .
	Encoding a JSON object in Java:
ð	Encoding a JSON object in Java: In ; Java encoding a JSON object involves using JSONObject class.
	involves using 220140bject class.
	Syntax:
-	JSONObject object_name = new JSONObject(); object_name.put (Kkey_new), (value));
-	object_name. put ( < key_mane ), «value > );
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Decoding a JSONObject in Java:
To decode JSON object in Java: we can use get () of JSONObject class to retrieve value given by key.

Syntax.

objec String value = object. get (< key);

Alternatively, we can use to Map () to get a map value consisting of key and value.

Canclusion: Thus, we have successfully encoded and clecode a JSON object.

