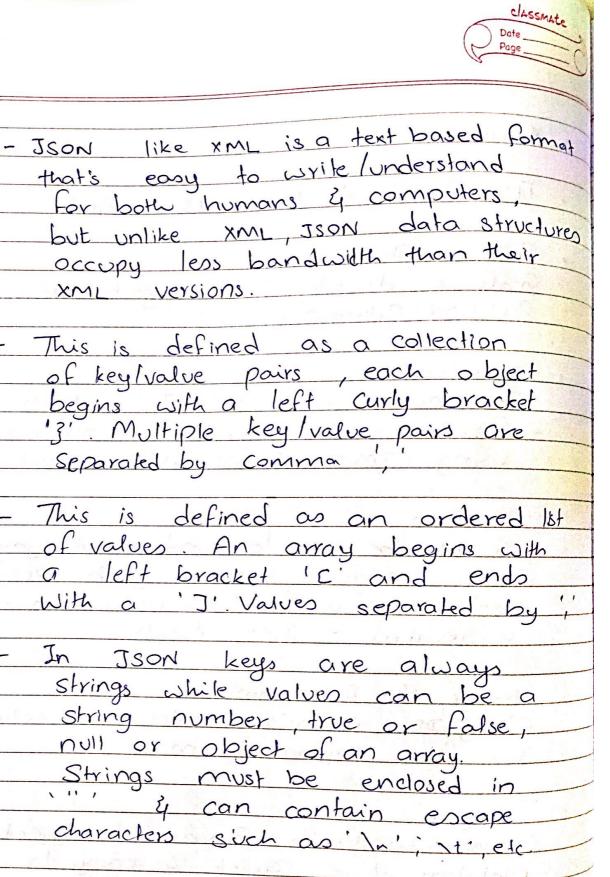
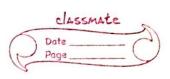
	Assignment B07
	Link to all a Video part person in the
٥	Title: Encode 4 decode ISON objects.
	and the man was sometimes and
•	Problem Statement
	Grode 4 decode Json Objects using JAVA/
	Perl IPHPI Python Ruby.
	with the and beautiful a realist to the
0	Objectives:
	- To encode & decode JSON objects.
	- Performing read & write operation
	using JAVA & mongodb connectivity.
9	Outcomes:
	late will be able to understand java
	and managab connectivity by performing
	read 30 write functions using encoding
	4 decading of Json objects.
	The state of the s
,	SIW & HIW Requirements:
	Maria DR 64-bits Windows OS, eclipse,
	Tar files, keyboard, mouse.
	Lection and the Contract of th
•	Theory:
	Tean stands for Javascript Object
N.	Notation, it is quick & easy to
	parse. ¿ generate.



_	- JSON TIKE MILL
	that's some to write lunderstand
	for both humans questions
	but unlike XML JSON Gara STUCTURES
	occupy less bandwidth than their
	XML versions.
	V
	- This is defined as a collection
	of key/value pairs, each object
	begins with a left curly bracket
	begins with a left curly bracket  '3'. Multiple key/value pairs are
	Separated by comma,
	- This is defined as an ordered list
	of values. An array begins with
(	a left bracket 'c' and ends
	With a 'J'. Values separated by ;
_	
_	- In Json keys are always
_	Simp while values can be a
	String number true or take.
	null or object of an array.
	Strings must be enclosed in
	4 Can contain
	characters such as 'In'; It', etc.
	ws in the etc
1	
T	



		-
		2000
0	Encoding JSON data in JAVA	1
		-
	- Ask for all values	-
	- Create a Json object	-
	- Insert values in Json object by	
	'put' function.	
	- Create a connection with mongodb	
	by including jar files	
	by Meloaling Jan Frios	-
	Suntan	-
	Syntax:	`
	Mongo Client mongo = mongo Clients. create;	1
	Mongo Database. db = mongo. get Database ("mydatabase")	1
	To I	1
0	Decoding Json data in Java:	1
	a la como de ilevale over	-
	- Create a Mongo Cursor & iterate over	1
	mongo collection.	1
	- Till the cursor has next values,	1
	parse the 'Isonvalue to Ison	1
	'object'	1
	- Read all the values in Json object	1
	& print it.	1
	- close the cursor-	-
		-
0	Conclusion:	+
	Therefore, we successfully implemented	+
	encoding & decoding of Json	4
	objects.	1
		-
		1
		-

```
import com.mongodb.client.*;
import com.mysql.cj.xdevapi.JsonValue;
import java.util.Iterator:
import java.util.Scanner;
import com.mongodb.*;
import org.bson.Document;
import org.json.simple.JSONValue;
import org.json.simple.JSONObject;
import org.json.simple.JSONArray;
public class B7
public static void main(String[] args) {
trv {
MongoClient mongo = MongoClients.create("mongodb://localhost:27017");
MongoDatabase db = mongo.getDatabase("b7");
MongoCollection<Document> collection = db.getCollection("game");
Scanner sc = new Scanner(System.in);
JSONObject obj = new JSONObject():
JSONArray jarr = new JSONArray();
String uname, badge;
int u_number;
System.out.print("Enter Name :");
uname = sc.nextLine();
System.out.print("Enter User Number : ");
u number = sc.nextInt();
sc.nextLine();
while (true) {
System.out.print("Enter badge:");
badge = sc.nextLine();
jarr.add(badge);
System.out.print("Enter 'Y' to add more");
badge = sc.nextLine();
if (!badge.equals("Y"))
break;
}
//encoding json
obj.put("name", uname);
obj.put("user_number", u_number);
obj.put("badges", jarr);
Document document;
document = Document.parse(obj.toString());
collection.insertOne(document);
//System.out.print(obj);
for (Document doc : collection.find()) {
// System.out.print(doc.toJson().toString());
Object o1 = JSONValue.parse(doc.toJson());
JSONObject jsonObject = (JSONObject) o1;
//decoding json object
System.out.printf("%15s %15s %30s", jsonObject.get("name").toString(),
```

```
jsonObject.get("user_number"), jsonObject.get("badges"));
System.out.print('\n');
} catch (Exception e) {
System.out.println(e);
}
}
```

OUTPUT - Enter Name :Prachi
Enter User Number : 6
Enter badge:Rookie
Enter 'Y' to add more
n
Prathamesh 1 ["Rookie"]
Sakshi 2 ["Rookie"]
sparsh 3 ["Rookie", "Veteran"]
Ronak 4 ["Rookie", "Veteran"]
Prajwal 5 ["Rookie"]
Atharv 6 ["Rookie"]