**Assignment 6**

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Encode and Decode JSON Objects using Java/Perl/PHP/Python/Ruby

**JSON Encode :-**

import org.json.simple.JSONArray;

import org.json.simple.JSONObject;

public class JsonEncodeDemo

{

public static void main(String[] args)

{

JSONObject student=new JSONObject();

student.put("name","XYZ");

student.put("classname","TE");

JSONArray marksarray = new JSONArray();

JSONObject DBMS=new JSONObject();

DBMS.put("DBMS","60");

marksarray.add(DBMS);

JSONObject TOC=new JSONObject();

TOC.put("TOC","50");

marksarray.add(TOC);

JSONObject CNT=new JSONObject();

CNT.put("CNT","65");

marksarray.add(CNT);

student.put("marks",marksarray);

JSONObject obj = new JSONObject();

obj.put("student",student);

System.out.print(obj);

}

}

**JSON Decode : -**

import java.util.Iterator;

import java.util.Set;

import org.json.simple.JSONArray;

import org.json.simple.JSONObject;

import org.json.simple.parser.JSONParser;

import org.json.simple.parser.ParseException;

public class JsonDecodedemo {

/\*\*

\* @param args

\*/

public static void main(String[] args) {

JSONParser parser=new JSONParser();

//{"student":{"marks":[{"DBMS":"60"},{"TOC":"50"},{"CNT":"65"}],"classname":"TE","name":"XYZ"}}

String jsonString="{\"student\":{\"marks\":[{\"DBMS\":\"60\"},{\"TOC\":\"50\"},{\"CNT\":\"65\"}],\"classname\":\"TE\",\"name\":\"XYZ\"}}";

try{

JSONObject mainobj = (JSONObject)parser.parse(jsonString);

JSONObject student =(JSONObject)mainobj.get("student");

System.out.println("Name - "+student.get("name"));

System.out.println("Classname - "+student.get("classname"));

JSONArray marks=(JSONArray)student.get("marks");

for(int i=0;i<marks.size();i++){

JSONObject subMark =(JSONObject)marks.get(i);

Set keys=subMark.keySet();

Iterator keysItr=keys.iterator();

while(keysItr.hasNext()){

Object key=keysItr.next();

System.out.println(key+" - "+subMark.get(key));

}

}

}

catch(ParseException pe){

System.out.println(pe);

}

}

}