## Assignment B7 Date of Completion :-Date of submission : Title study & domostrate the use of encoding & decoding ISOM objects wring Java | Perl | PHP | Python | Ruby Objective To understand & implement encoding & docoding of JSON object. Slw package: V5 code python in the rollance. ) horde war stokest sov learning outcomes. We will able to understand how JSON Object are encoded & decoded using python. who shorten this Attached is anoned I wing " Operation pre-requisites = python

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Theory: JSON objects can be created with Javasnip Took objects using Javascript. · Creation of an empty object > Vag JSONObj = {3. creation of now object vae JSONObj = now object (); · Creation of object with attribute book Name with value in string, attribute price with numeric value Attribute is accessed by wing ": " Operator val IsoMobj = { "bookname": "VB BLACK B "price": 5003; JCON functions: i) Json- en codo: It return Json repo of a value.

Joan decode It decode a 550H string a joon last error in returns the last essent occured.

Incoding ison load ()

ison-encoded) function is used for encoding which returns JSGN representation of a value

syntax = json. load (file)
string json encode (pivalue E, poplions = 0] The value parameter specifica value being specified .

JOON HEX-QUOT JSON-HEX-TAID JSON HEX: APOS JOH, MUM

e. q. for python the ison is package which need to import

we need to set was to ison load ()

dala = ison. load (file) FOR in range (len (date ["Employee"]))

toe j. k in data ["Employee] [i]. items

print ("m")

return ( ' Total Number of Records on & ? )

JSON library can parse JSON from string of JSON library is past of built in JSON package so No need to install it 1. Conversion from JSON to python
2. Conversion from python to JSON Decoding : ison dump function used to insect. Syntax: json: dupidump (') 8-9. = with open ('dbms json', 'w') as fi: data [ 'employee'] append (raw Record) ison . dump (data, fi, indent = 4) return ( Record ingested succentully) issur with sporting or most all willing sol Conclusion. the have implemented the JSON object oncoding & decoding why python successfully IN THE STATE OF SOLEMENT WHEN

## Code: -

```
import json
with open('C:\Swapnil\Engineering Third Semester\Database lab\B7\dbms.json') as f:
    data = json.load(f)
def main():
    def displayAll():
        for i in range(len(data["Employee"])):
            for j,k in data["Employee"][i].items():
                print(j," : ",k)
            print('\n')
        return('Total Number of Records are {}'.format(len(data["Employee"])))
    def displayById():
        id_ = int(input('Enter the id'))
        flag = 0
        for i in range(len(data["Employee"])):
            if data["Employee"][i]["id"] == id_:
                flag = 1
                for j,k in data["Employee"][i].items():
                    print(j," : ",k)
                print('\n')
        return('Record Not Present \n\n ') if flag == 0 else ('Record Present')
    def insertNewRecord():
        global data
        newRecord = {}
```

```
listOfIds = [i["id"] for i in data["Employee"]]
    id = int(input('Enter the id number\n '))
    if id in listOfIds:
        return('Id Already Present\n ')
    else:
        newRecord["id"] = id_
        newRecord["name"] = input('Enter the name')
        newRecord["designation"] = input('Enter the Designation')
        newRecord["salary"] = int(input('Enter the Salary of the Employee'))
        newRecord["hobbies"] = input('Enter the hobbies\n').split()
        with open('dbms.json','w') as f1:
            data['Employee'].append(newRecord)
            json.dump(data,f1,indent=4)
            return('Record Inserted Successfully\n')
boolvalue = True
while boolvalue:
    print('1. To display all data')
    print('2. To display by id')
    print('3. To insert a new Data')
    ch = input()
    print('\n')
    switcher = {
        "1":displayAll,
        "2":displayById,
        "3":insertNewRecord
    try:
        fun = switcher[ch]
```

```
print(fun())
except TypeError:
    print('Enter a valid choice\n ')

choice = input('Do you want to continue Y/N')

boolvalue = True if choice in ['y','Y'] else False

main()
```

**Screenshots:-**





