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# TutorialAICSIP

A blog for Comprehensive notes and Important questions

# Solution Computer Science Practical Paper 2023 Class 12

By [tutorialaicsip](#)

DEC 31, 2022

Computer Science

Class 12

Solution Practical Exam Question Paper 2023

Complete solution with Python Code & MySQL Queries

In this article you will get Solution Computer Science Practical Paper 2023 Class 12. Here we go!

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6.1. Python Program  
6.2. Stub Program

# Solution Computer Science Practical Paper 2023 Class 12

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Let us start with the solution for practical question paper for computer science class 12.

## Solution Computer Science Practical Paper 2023 Class 12 Set 1

Here is the soultion for computer science practical paper 2023 class 12 set 1.

### Q – 1 Python Program on Data File handling (Binary File)

Q – 1 a) Write a menu drive program to perform following operations into a binary file shoes.dat.

- 1. Add record
- 2. Display records
- 3. Search record
- 4. Exit

The structure of file content is: [s\_id, name, brand, type, price]

Solution:

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```
import pickle
while True:
    print('''
        1. Add Record
        2. Display Record
        3. Search Record
        4. Exit
    ''')
    ch=int(input("Enter your choice:"))
    l=[]
    if ch==1:
        f=open("shoes.dat","ab")
        s_id=int(input("Enter Shoes ID:"))
        name=input("Enter shoes name:")
        brand=input("Enter Brand:")
        typ=input("Enter Type:")
        price=float(input("Enter Price:"))
        l=[s_id,name,brand,typ,price]
        pickle.dump(l,f)
        print("Record Added Successfully.")
        f.close()
    elif ch==2:
        f=open("shoes.dat","rb")
        while True:
            try:
                dt=pickle.load(f)
                print(dt)
            except EOFError:
                break
        f.close()
    elif ch==3:
        si=int(input("Enter shoes ID:"))
        f=open("shoes.dat","rb")
        fl=False
        while True:
            try:
                dt=pickle.load(f)
                for i in dt:
                    if i==si:
                        fl=True
                        print("Record Found...")
                        print("ID:",dt[0])
                        print("Name:",dt[1])
                        print("Brand:",dt[2])
                        print("Type:",dt[3])
                        print("Price:",dt[4])
            except EOFError:
                break
        if fl==False:
            print("Record not found...")
        f.close()
    elif ch==4:
        break
```

Name (required)

Email (required)

PROVIDE YOUR  
EMAIL FOR LATEST  
UPDATES.



```
else:
    print("Invalid Choice")
```

Follow this link to Download Python code:

“ ***Download Code Practical exam Computer Science*** ”

## Q -2 Stub Program

b) Observe the following code and fill in the given blanks as directed:

```
import mysql.connector as mycon
cn=mycon.connect(_____) # Statement 1
cr=cn._____ # Statemen 2
cust_id=int(input("Enter ID:"))
cust_name=input("Enter Customer Name:")
city=input("Enter City:")
ba=float(input("Enter Bill Amount:"))
mno=input("Enter Mobile No.:")
cr.execute(_____) # Statement 3
cn._____ # Statement 4
```

Solution:

Ans. 1:

```
mycon.connect(host="main_rajwadi", username="rajwadi_admin",
password='Rajwadi@2023', database='rajwadi' )
```

Ans. 2:

```
cursor
```

Ans. 3:

```
"insert into customer values ({},'{'','{'',
{'','{'"'.format(cust_id,cust_name,city,ba,mno)
```

OR

```
"insert into customer  
values(%d,'%s','%s',%f,'%s')"%cust_id,cust_name,city,ba,mno
```

Ans. 4:

```
commit()
```

## Q – 2 Practical File

Follow the below-given link to download the practical file for a computer science class 12.



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## Q – 3 Project

The project report should be submitted with complete code and outputs.

Follow this link to download the projects:



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## Q – 4 Viva Voce

The oral questions can be asked based on the project report and practical file.

Follow this youtube video link to watch the solution:

## CBSE Computer Science Class 12 board practical exam question pape



# Solution Computer Science Practical Paper Class 12 Set 2

Let us see another soultion computer science practical paper class 12 set 2. Her we go!

## Q – 1 Stack Program (8 Marks)

**Q – 1 a) Write a menu drive program in python to implement stack using a list and perform following functions:**

1. Push
2. Pop
3. Display
4. Peek
5. Exit

**Solution:**



```
stk=[]
top=-1
def isEmpty():
    global stk
    if stk==[]:
        print("Stack is Empty")
    else:
        None
def push():
    global stk
    global top
    n=int(input("Enter value to append:"))
    stk.append(n)
    top=len(stk)-1
    print("Value is Pushed into stack.")

def display():
    global stk
    global top
    if top== -1:
        isEmpty()
    else:
        top=len(stk)-1
        print("Top->",stk[top])
        for i in range(top-1,-1,-1):
            print(stk[i])

def Pop():
    global stk
    global top
    if top== -1:
        isEmpty()
    else:
        print("Elment Popped:",stk.pop())
        top=top-1

def peek():
    global stk
    global top
    top=len(stk)-1
    print("Peeked Element:",stk[top])
def menu():
    while True:
        print('''
            1. Push
            2. Pop
            3. Display
            4. Peek
            5. Exit
        ''')
        ch=int(input("Enter any number:"))
        if ch==1:
            push()
        elif ch==2:
            Pop()
```

```
elif ch==3:
    display()
elif ch==4:
    peek()
elif ch==5:
    print("Bye Bye!")
    break
else:
    print("Invalid choice")

menu()
```

**Download python code:**

“ [\*\*Download Stack Program for Practical Paper Solution Class 12 Computer Science\*\*](#) ”

## Q – 2 Stub Program

**b) Observe the following code and fill in the given blanks as directed:**

```
import mysql.connector as mycon
cn=mycon.connect(_____) # Statement 1
cr=cn._____ # Statemen 2
cust_id=int(input("Enter ID to Update:"))
cust_name=input("Enter Customer Name (New):")
city=input("Enter City (New):")
ba=float(input("Enter Bill Amount (New):"))
mno=input("Enter Mobile No.(New):")
cr.execute(_____) # Statement 3
cn._____ # Statement 4
```

The partial code is given for update a record in customer table created in Rajwadi Store. The customer table is given as following:

CustomerID – 111

CustomerName – Abhishek

City – Ahmedabad

BillAmt – 1500

MobileNo – 9999999999

i. Write the parameters and values required to fill statement 1. The parameters values are as follows:

Database Server – main\_rajwadi



User – rajwadi\_admin

Pasword – Rajwadi@2023

Database – rajwadi

**Ans.:**

```
cn=mycon.connect(host="main_rajwadi", user="rajwadi_admin",  
passwd="Rajwadi@2023", database = "rajwadi")
```

ii. Write function name to create cursor and fill in the gap for statement 2.

**Ans.:**

```
cn.cursor()
```

iii. Write a query to fill statement 3 with desired values.

**Ans.:**

```
cr.execute("update customer set customername='{ }', city='{ }', billamt={ },  
mobilenos='{ }' where customerid={ }.format(cust_name, city, ba, mno,cust_id)")
```

iv. Write a query to fill statement 4 to save the records into table.

**Ans.:**

```
cn.commit()
```

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## Solution Computer Science Practical Paper Class 12 Set 3

Here we are going to discuss solution for Computer Science Practical Paper Class 12 set 3. Here we go!

# Python Program

**Q – 1 a) Write a menu drive program to perform following operations into telephone.csv.**

- 1. Add record
- 2. Display records
- 3. Search record
- 4. Exit

The structure of file content is: [s\_id, name, brand, type, price]

```
import csv

def add_record():
    f=open("telephone.csv",'a',newline='')
    wo=csv.writer(f)
    s_id=int(input("Enter Subscriber ID:"))
    name=input("Enter name of subscriber:")
    brand=input("Enter brand of telephone:")
    typ=input("Enter customer type:")
    price=float(input("Enter Price:"))
    wo.writerow([s_id,name,brand,typ,price])
    print("Record addedd Successfully.")
    f.close()

def display_record():
    f=open("telephone.csv",'r')
    ro=csv.reader(f)
    l=list(ro)
    for i in range(1,len(l)):
        print(l[i])
    f.close()

def search_record():
    f=open("telephone.csv","r")
    ro=csv.reader(f)
    sid=input("Enter id to search:")
    found=0
    for i in ro:
        if sid==i[0]:
            found=1
            print("Record Found:")
            print(i)
    if found==0:
        print("Record not found...")
    f.close()

def menu():
    while True:
        print('''
1. Add record
2. Display record
3. Search record
4. Exit
''')
        ch=int(input("Enter your choice:"))
        if ch==1:
            add_record()
        elif ch==2:
            display_record()
        elif ch==3:
            search_record()
        elif ch==4:
            print("Thank you, See you again!!")
            break
        else:
```

```
print("Invalid Choice")

menu()
```

Dwonload Python Code:

[Download CSV python code Solution Computer Science Practical Paper Class 12](#)

Stub Program

b) Observe the following code and fill in the given blanks as directed:

```
import mysql.connector as mycon
cn=mycon.connect(_____) # Statement 1
cr=cn._____ # Statemen 2
cust_id=int(input("Enter ID to Delete:"))
cr.execute(_____) # Statement 3
cn._____ # Statement 4
```

The partial code is given for delete a record from customer table created in Rajwadi Store.  
The customer table is given as following:

CustomerID	CustomerName	City	BillAmt	Mobileno
111	Abhishek	Ahmedabad	1500	9999999999

i. Write the parameters and values required to fill statement 1. The parameterv alues are as follows:

Database Server	Username	Password	Database
main_rajwadi	rajwadi_admin	Rajwadi@2023	rajwadi

Ans.:

```
cn=mycon.connect(host="main_rajwadi", user="rajwadi_admin",
passwd="Rajwadi@2023", database = "rajwadi")
```

ii. Write function name to create cursor and fill in the gap for statement 2.

Ans.:

```
cn.cursor()
```

iii. Write a query to fill statement 3 with desired values.

Ans.:

```
cur.execute("delete from customer where customerid={}.format(cust_id)")
```

iv. Write a query to fill statement 4 to save the records into table.

**Ans.:**

```
cn.commit()
```

## Solution Computer Science Practical Paper Class 12 Set 4

Let us discuss solution computer science practical paper class 12 set 4.

### Python Program

**Q – 1 a) WAP a menu-driven program in python to implement following on binary file of the given structure:**

[Doctor\_Id, Doctor\_Name, Hospital\_Id,Joining\_Date,Speciality,Salary]

1. Write a record to the file
2. Read all the records to the file
3. Update Record
4. Exit

```
import pickle

def insertRec():
    doctor_id = int(input('Enter doctor id:'))
    doctor_name = input('Enter Name:')
    hospital_id = int(input('Enter hosptial id:'))
    joining_date=input("Enter date:")
    speciality=input("Enter speciality:")
    salary=float(input("Enter Salary:"))

    rec = [doctor_id,doctor_name,hospital_id,joining_date,speciality,salary]

    f = open('hospital.dat','ab')
    pickle.dump(rec,f)
    f.close()

def readRec():
    f = open('hospital.dat','rb')
    while True:
        try:
            rec = pickle.load(f)
            print(rec)
        except EOFError:
            break
    f.close()

def updaterec():
    f = open('hospital.dat','rb')
    r1 = []
    while True:
        try:
            r = pickle.load(f)
            r1.append(r)
        except EOFError:
            break
    f.close()
    print(r1)
    d_id=int(input("Enter doctor id to update:"))
    found=0
    doctor_name = input('Enter new Name:')
    hospital_id = int(input('Enter new hosptial id:'))
    joining_date=input("Enter new date:")
    speciality=input("Enter new speciality:")
    salary=float(input("Enter new Salary:"))
    for i in range (len(r1)):
        if r1[i][0]==d_id:
            found=1
            r1[i][1] = doctor_name
            r1[i][2]=hospital_id
            r1[i][3]=joining_date
            r1[i][4]=speciality
            r1[i][5]=salary
    f = open('hospital.dat','wb')
```

```
for x in r1:
    pickle.dump(x,f)
f.close()
if found==0:
    print("Record not Found...")
def menu():
    while True:
        print('''
1. Write a record to the file
2. Read all the records to the file
3. Update Record
4. Exit
''')
        ch = int(input('Enter you choice:'))
        if ch == 1:
            insertRec()
        elif ch == 2:
            readRec()
        elif ch == 3:
            updaterec()
        elif ch == 4:
            print("Thank you, visit again!")
            break
    menu()
```

[Click here to download python code.](#)

Stub Program

b) Observe the following code and fill in the given blanks as directed:

```
import mysql.connector as mycon
cn=mycon.connect(_____) # Statement 1
cr=cn. # Statemen 2
cr.execute(_____) # Statement 3
dt=cr._ # Statement 4
for i in dt:
    print(i)
```

The partial code is given for display all records from customer table created in Rajwadi Store.

The customer table is given as following:

CustomerID	CustomerName	City	BillAmt	Mobileno
111	Abhishek	Ahmedabad	1500	9999999999

i. Write the parameters and values required to fill statement 1. The parameterv alues are as follows:

Database Server	Username	Password	Database
-----------------	----------	----------	----------



main_rajwadi	rajwadi_admin	Rajwadi@2023	rajwadi
--------------	---------------	--------------	---------

Ans.:

```
cn=mycon.connect(host="main_rajwadi", user="rajwadi_admin",  
passwd="Rajwadi@2023", database = "rajwadi")
```

ii. Write function name to create cursor and fill in the gap for statement 2.

Ans.:

```
cn.cursor()
```

iii. Write a query to fill statement 3 with desired values.

Ans.:

```
cur.execute("selet * from customer")
```

iv. Write a function to fill statement 4 to store the records in list object dt.

Ans.:

```
cr.fetchall()
```

# Solution Computer Science Practical Paper Class 12 Set 5

Let us see now solution computer science practical paper class 12 set 5. Here it is:

## Python Program

**Q – 1 a) Write a program to create CSV file and store empno, name and salary of employee. Display the records whose salary in range of 5000 to 15000.**

```
import csv
def create_csv():
    f=open("emp.csv",'w',newline='')
    wo=csv.writer(f)
    n=int(input("How many records?:"))
    for i in range(n):
        empno=int(input("Enter employee number:"))
        ename=input("Enter Ename:")
        salary=float(input("Enter Salary:"))
        wo.writerow([empno,ename,salary])
    print("Record file created Successfully.")
    f.close()

def display_record():
    f=open("emp.csv",'r')
    ro=csv.reader(f)
    for i in ro:
        if float(i[2])>=5000 and float(i[2])<=15000:
            print(i)
    f.close()
create_csv()
display_record()
```

[Click here to download python code](#)

Stub Program

b) Observe the following code and fill in the given blanks as directed:

```
import mysql.connector as mycon
cn=mycon.connect(_____) # Statement 1
cr=cn._____ # Statemen 2
cr.execute(_____) # Statement 3
dt=cr._____ # Statement 4
for i in dt:
    print(i)
```

The partial code is given for display all records from customer table whose bill amount is more than 5000.  
The customer table is given as following:

CustomerID	CustomerName	City	BillAmt	Mobileno
111	Abhishek	Ahmedabad	1500	9999999999

i. Write the parameters and values required to fill statement 1. The parameterv alues are as follows:

Database Server	Username	Password	Database
main_rajwadi	rajwadi_admin	Rajwadi@2023	rajwadi

Ans.:

```
cn=mycon.connect(host="main_rajwadi", user="rajwadi_admin",  
passwd="Rajwadi@2023", database = "rajwadi")
```

ii. Write function name to create cursor and fill in the gap for statement 2.

Ans.:

```
cn.cursor()
```

iii. Write a query to fill statement 3 with desired values.

Ans.:

```
cr.execute("select * from customer where billamt>5000")
```

iv. Write a function to fill statement 4 to store all the tuples in a list object dt.

```
cur.fetchall()
```

Thank you for reading this post. Feel free to share your views/feedback/suggestions for this article.

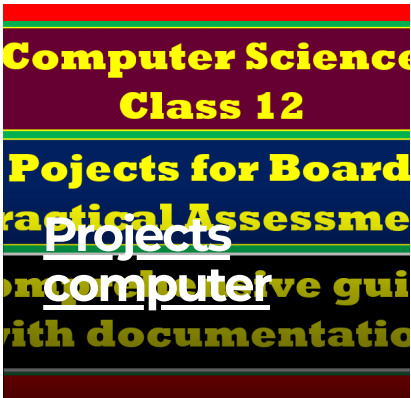
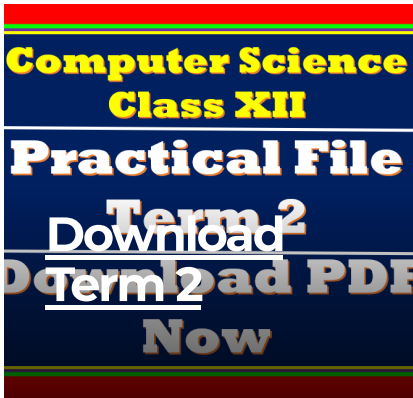
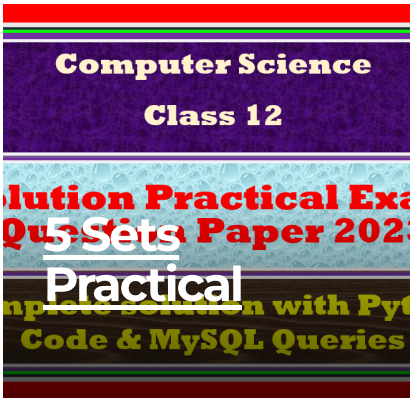


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